3546
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inventory of

WATERSHED MANAGEMENT PROJECTS IN

Ontario



1990-1995

Ontario
Ministry of Environment and Energy
Ministry of Natural Resources



INVENTORY OF WATERSHED MANAGEMENT PROJECTS IN ONTARIO

1990-1995

ISBN 0-7778-6195-X

PIBS 35460

PRINTED ON RECYCLED PAPER

acknowledgements

The co-ordinators of this project would like to express their thanks to all the watershed management practitioners who voluntarily provided the data used to develop the database and subsequent report. Without their participation and their ongoing effort in collecting, communicating and editing the data, completion of this project would not have been possible. For a complete list of project contributors, refer to page 105.

contents

ACKNOWLEDGEMENTS		II
PREFACE		IV
CHAPTER 1:	INTRODUCTION	1
CHAPTER 2:	DATA	3
CHAPTER 3:	FINDINGS	5
CHAPTER 4:	CONCLUSION	10
GLOSSARY		11
APPENDIX A	GUIDE	13
APPENDIX B	INDIVIDUAL PRINTOUTS	14
APPENDIX C	REGISTRATION FORM	103
PROJECT CONTRIBUTORS		105

preface

A number of terms that are frequently used in this report are defined below using definitions identified in the final report of the Watershed Planning Implementation Project Management Committee.[1]

A watershed is an entire area, both land and water, drained by a watercourse and its tributaries. A subwatershed is an area drained by an individual tributary to the main watercourse.

Watershed management is a process of managing human activities in an area defined by watershed boundaries in order to protect and rehabilitate land and water and associated aquatic and terrestrial resources, while recognizing the benefits of orderly growth and development. The goal is to contribute to the environmental, social and economic well-being of the area on a sustainable basis. Watershed management is a tool to assist those making decisions regarding land and water use. There are four phases: 1) issue identification and data gathering; 2) analysis and planning; 3) implementation; 4) monitoring.

The practice of watershed management has evolved over the last few decades to become more comprehensive by integrating and addressing a broader range of resource and environmental protection issues and more thoroughly evaluating the important linkages between land and water, between surface and groundwater, between water quality and water quantity and between watershed management and municipal planning.

Watershed planning practitioners have found that this comprehensive approach to watershed management has resulted in an overall savings of time and money. It is expected that watershed management will continue to evolve as experience increases, more information becomes available, study methodology improves and as study issues are better defined.

1 Watershed Planning Implementation Project Management Committee. An Evaluation of Watershed Management in Ontario - Final Report. Toronto, 1997 p.2.

CHAPTER

introduction

This document contains the findings of a joint inventory of the Ministry of Environment and Energy (MOEE) and the Ministry of Natural Resources (MNR) entitled: Inventory of Watershed Management Projects in Ontario, 1990-1995.

This watershed management inventory consists of information gathered from watershed management practitioners. The information which was collected and is contained in this report helps to:

- identify the extent of watershed management in Ontario;
- inform others of specific ongoing and completed studies;
- foster communications between future community participants and experienced watershed management practitioners;
- provide data that can be used to develop additional knowledge and insights into watershed management activities.

Chapter 2 introduces the data. A map illustrates the location of each project in Ontario and a legend identifies the project name. Chapter 2 also elaborates on potential data uses.

Chapter 3 is the focus of the report. It contains 16 findings displayed in a question and answer format. Wherever possible, the answer is accompanied by a pie chart, bar chart or table to illustrate the trend, distribution or typical value. This is by no means an exhaustive list of findings, but a sample of the kinds of statistics that can be generated by sorting and querying the data.

Chapter 4 concludes the report and identifies how to go about registering a watershed management project that has been missed in this report or was initiated since 1995.



CHAPTER 2

data

Eighty-seven watershed management projects have been initiated between 1990 and 1995 according to the information provided by practitioners. Detailed information has been gathered on each of these projects under the following categories: registration information; study area characteristics; plan completion and implementation; financial information and study participation.

The map on the following page illustrates the location of each study. To help the reader identify the projects, a reference number has been assigned to each (between 1 and 87). The legend contains a list of the projects in alphabetical order and their corresponding reference number, followed by receiving stream, main land use and status of the study. A one-page printout identifying additional information on each project is provided in Appendix B.

PULLOUT MAP ☛

These one-page printouts can be analysed individually or as a group. The information that is derived can be applied in a number of ways. Whether the reader is with a conservation authority, municipality, community group, development interest, environmental consultant, provincial ministry, or is a private land owner/resident, the data can help the reader to:

- **become more aware of the number and location of watershed management activities in Ontario;**
- **get in touch with the lead agency to:**
 - obtain additional up-to-date site-specific information on the project such as study issues, plan recommendations and implementation activities;
 - provide expertise based on experience with similar watershed management activities;
 - inquire about opportunities to participate on this or future projects (volunteer assistance, community outreach, public consultation);
 - inquire about individual stewardship practices and activities that will protect and/or improve the health of the watershed;
- **become more aware of local land and resource use issues which will in turn help decision-makers to:**
 - develop appropriate policy, best management practices and supporting programs that will help to sustain a healthy ecosystem such as: pollution prevention; resource allocation and land use planning; environmental remediation; resource conservation/protection; resource stewardship;
- **obtain important scientific data which can be used to:**
 - identify interactions and relationships amongst groundwater, surface water, valley lands, wildlife, habitat, wetlands, woodlots, greenspace;
 - determine potential cumulative effects or environmental concerns related to certain activities on the land;
 - provide valuable background data and additional monitoring results for future studies.

table 1

LIST OF WATERSHED MANAGEMENT PROJECTS

#	PROJECT NAME	RECEIVING STREAM	MAIN LAND USE	STATUS *
1	Alcona Master Drainage Plan	Cooks Bay		●
2	Alder Creek Subwatershed Plan - Phase I	Nith River		○
3	Armitage Creek Subwatershed Plan	Holland River		○
4	Ausable-Bayfield Watershed Plan Review	Lake Huron		●
5	Big Creek Tributary/Springvalley Subwatershed Plan	Big Creek		●
6	Blair-Bechtel Creeks Watershed Plan	Grand River		●
7	Bruce Creek Environmental Management Plan	Little Rouge River		●
8	Burndenet Creek Environmental Management Plan	Little Rouge River		●
9	Carp River Basin Study	Ottawa River		○
10	Cavan Creek & Otonabee River Subwatershed Plan	Otonabee River		○
11	Centennial Creek Subwatershed Plan	Highland Creek		○
12	Chippewa Creek Subwatershed Plan	Lake Nippising		○
13	City of Vaughan Subwatershed Study	Don & Humber Rivers		●
14	Collins Creek Watershed Study	Lake Ontario		●
15	D'Aubigny Creek Subwatershed Plan	Grand River		●
16	Dingman Creek Subwatershed Study	Thames River		●
17	Dodd/Kettle Creek/Lynhurst Subwatershed Plan	Kettle Creek		●
18	Don River Subwatershed Strategy	Lake Ontario		●
19	Doon South Creek Subwatershed Plan	Strasburg Creek		●
20	East Morrison Creek Subwatershed Study	Lake Ontario		●
21	Eramosa River Subwatershed Study	Speed River		○
22	Exhibition Creek Environmental Management Plan	Little Rouge River		●
23	Fletchers Creek Subwatershed Plan	Credit River		●
24	Fourteen Mile/McCraney Creeks Watershed Plan	Lake Ontario		●
25	Fourteen Mile/Taplow/McCraney Creeks Subwatershed Plan	Lake Ontario		●
26	Frenchman's Creek Watershed Management Plan	Upper Niagara River		○
27	Glen Oak Creek Subwatershed Plan	Taplow/McCraney Creek		●
28	Grand River Strategy	Grand River to Lake Erie		○
29	Hanlon Creek Watershed Plan	Hanlon Creek		●
30	Harmony Creek Watershed Plan	Lake Ontario		○
31	Harper Creek Watershed Planning Study	Otonabee River		○
32	Humber Watershed Strategy	Lake Ontario		○
33	Jock River Watershed Management Study	Rideau River		○
34	Joshua's Creek Watershed Plan	Lake Ontario		●
35	Kemptville Creek Watershed Plan	Rideau River		○
36	Kettle Creek Tributary Block 3 Subwatershed Plan	Kettle Creek		●
37	Kettle Creek/Upper Dodds Creek Subwatershed Plan	Lake Erie		●
38	Lake Nosbonsing Watershed Management Plan	Lake Nosbonsing		●
39	Lakehead Region Watershed Strategy	Lake Superior		●
40	Laurel Creek Subwatershed # 309/313 Study	Clair Creek		○
41	Laurel Creek Subwatershed # 311 Study	Laurel Creek		●
42	Laurel Creek Subwatershed # 314 Study	Clair Creek		●
43	Laurel Creek Subwatershed Study	Grand River		●
44	Lovers & Hewitts Creeks Master Watershed Plan	Kempenfelt Bay to Lake Simcoe		●

*** NOTE:** *As of Summer of 1996*

LEGEND

- AGRICULTURE
- DEVELOPED
- FOREST/WOODLOT
- OPEN SPACE
- ● COMPLETED
- ○ ONGOING

PULLOUT ☛

CHAPTER 3

findings

This chapter offers statistical information on watershed management in Ontario. It is presented using a question and answer format and provides a sampling of the type of information that can be derived from the data that were collected.

The following 16 questions and answers identify some interesting facts and trends related to watershed management in Ontario over a five year period between 1990 and 1995. This information was last verified summer of 1996.

1) How many studies were initiated between 1990 and 1995?

Since 1990, 87 watershed and subwatershed management projects have been initiated. *Figure 3.1* shows the initiation of these projects by year. In 1993 demand for studies was up significantly and resulted in 30 initiated projects. This figure seems to coincide with the release of the three watershed planning guidance documents in 1993 which were jointly prepared by the ministries of Natural Resources (MNR) and Environment and Energy (MOEE).

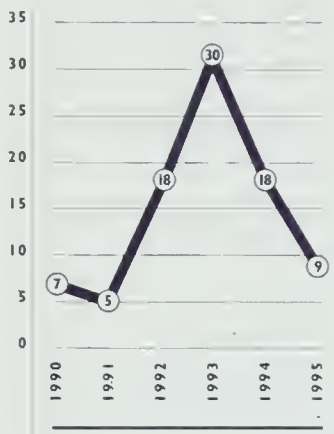


Figure 3.1

Annual initiation of watershed projects

2) Where is watershed management generally taking place in Ontario?

According to the maps, which are located in the pullout (Chapter 2), it is evident that major population centers in southern Ontario account for a significant proportion of the watershed management efforts. For example, the primary areas of activity include the regional municipalities of Metropolitan Toronto and York. The next significant area of activity appears to be west of the Metropolitan Toronto Area in and around the regional municipalities of Halton, Waterloo and the city of London.

Several larger watershed study areas in southern Ontario are found in the Humber, Grand, Maitland, Ausable and Nottawasaga watersheds, in the Lake Simcoe basin and in the Central Lake Ontario and Rideau Valley watersheds.

3) What is happening in MNR district and MOEE region jurisdictions?

The greatest number of watershed management activities are found in the MNR Maple district with 24 projects, Cambridge district with 23 projects followed by Alymer district with 10 projects, Midhurst and Tweed districts, each with eight projects.

In MOEE regions the number of watershed management activities are highest in Central region with 30 projects followed by South West region with 19 projects, West Central with 18 projects, Eastern with 14 projects and Northern with six projects.

findings



Figure 3.2

Status of completed watershed management projects

Legend
- ● Implementation strategy prepared?
- ☐ Plan being implemented?
- ■ Monitoring strategy prepared?
- ○ Monitoring underway

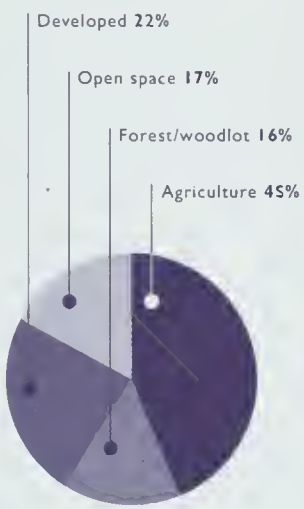


Figure 3.3

Distribution of land uses within a study area

4) What is the status of the watershed management projects? Are they ongoing or completed?

Of the 87 watershed management projects that were initiated between 1990 and 1995, 57 are completed, and 30 are ongoing.

Of the 57 completed studies, 57 have developed an implementation strategy, 39 projects are being implemented, 26 have developed a monitoring strategy and 19 projects are currently being monitored. *(Refer to Figure 3.2).*

5) What is the median size of a study area?

Based on 83 responses, the median size of a study area is 45 km^2. The minimum area is 1 km^2, and the maximum area is 109,000 km^2.

6) What is the median population in a study area?

Based on 70 responses, the median population within a study area is 12,000. The minimum population is 50, and the maximum population is 800,000.

When comparing the median size of the study area and median population within the study area there are approximately 270 people per km^2.

7) What is the median distribution of land uses within a study area?

Based on 84 responses, the watershed management study area typically consists of agricultural land, developed land, forests/woodlots and open space. Agricultural land use seems to account for the major proportion of the watershed area under study. *(Refer to Figure 3.3).*

8) What triggered the initiation of a watershed management project?

Based on 74 responses, 52 watershed management projects were initiated due to development pressure and 19 were initiated to augment resource protection and remediation. The other three reasons for project initiation were due to Canadian Heritage River designation, hydro development, and land use plans and approvals.

9) What are the typical issues in the study area?

A wide range of study issues were identified. The following chart shows which study issues were most common amongst the watershed management projects and are listed in descending order:

NO. OF PROJECTS	STUDY ISSUE	NO. OF PROJECTS	STUDY ISSUE
74	Surface water-flooding	29	Agriculture
74	Aquatic life/fisheries	22	Transportation
73	Surface water quality	18	Aggregates
71	Surface water-stormwater	13	Municipal water
58	Surface water-low flow	13	Municipal sewage
57	Stream channel/buffers	11	Private/communal water
44	Groundwater quality	10	Private/communal sewage
43	Wetlands/ANSIs	1	Waste disposal
39	Groundwater quantity		

10) What is the typical duration of a project (from initiation to completion)?

Of the 57 completed projects, 18 projects took one year or less to complete, 27 projects took two years to complete, while the remaining 12 projects took three to five years to complete. *(Refer to Figure 3.4).*

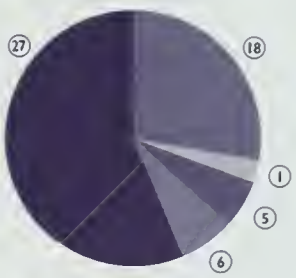


Figure 3.4

Typical duration of a project (years)

11) What is the typical size (median) of the various study committees?

Based on 66 responses, the steering committee typically had 10 members. The minimum number of members was three, the maximum was 46.

Based on 49 responses, the technical committee typically had 10 members, the minimum number of members was three, the maximum was 139.

Based on 20 responses, the public advisory committee also typically had 10 members, however, the minimum was two and the maximum was 60.

findings

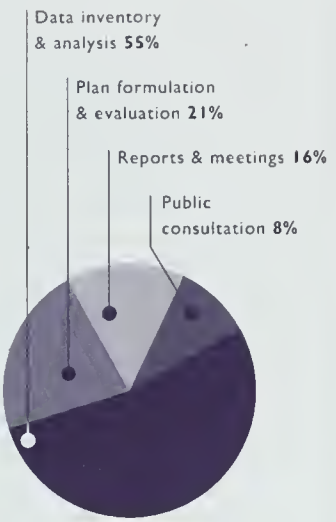


Figure 3.5

Distribution of total cost by study component

12) What proportion of the project budget was allocated to each study component?

The pie chart (*Figure 3.5*) shows the percent of median costs allocated amongst these study components. The majority of the project budget was spent on data inventory and analysis which amounted to 55 percent of the total cost of a project. In the future, it may also be useful to collect information relating to the costs associated with implementation and monitoring.

STUDY COMPONENT	MEDIAN COST	PERCENT (%)
Data inventory/analysis:	$84,000	55
Plan formulation/evaluation:	$33,000	21
Reports/meetings:	$24,000	16
Public consultation:	$12,500	8

13) What are the median costs for the scientific/discipline components of the data inventory phase?

The most expensive scientific component is hydrology and flooding/erosion which accounted for 27 percent ($25,250). The bar chart (*Figure 3.6*) shows the relative distribution percentages of expenditures related to each scientific component based on the median figures listed below:

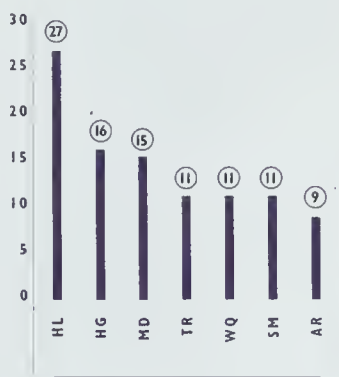


Figure 3.6

Distribution of data inventory cost by scientific component (percentage of total cost)

SCIENTIFIC COMPONENT	MEDIAN COST	PERCENT (%)
Hydrology, flood and erosion (HL):	$25,250	27
Hydrogeology (HG):	$15,000	16
Mapping/data management (MD):	$14,000	15
Terrestrial resources (TR):	$10,000	11
Water quality (WQ):	$10,000	11
Stream morphology (SM):	$10,000	11
Aquatic resources (AR):	$8,000	9

14) Who typically leads a watershed management activity?

Out of a total of 87 studies, the chart shows that 41 were led by municipalities, 38 by conservation authorities, two by the province (one in partnership with Ontario Hydro), three by consulting firms, two by developers and one by a private citizen's group. *(Refer to Figure 3.7).*

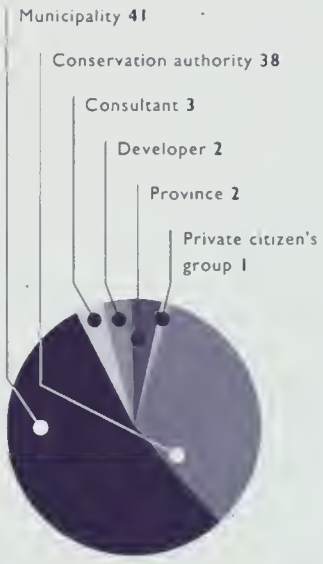


Figure 3.7

Typical lead agency of a watershed management project

15) What is the median cost of a typical watershed management project?

Based on 84 responses, the total cost of a project ranged from $30,000 to $896,000 The median is $150,000.

16) Who is generally involved in the watershed management project?

Although many agencies and organizations are involved in watershed management projects. Based on 86 responses, lower tier municipalities were reported to be the participant most frequently involved in the watershed management project. The following chart indicates the number of times that each agency or organization was reported to have been involved in a watershed management project (in descending order).

NO. OF PROJECTS	AGENCY/ORGANIZATION
84	Lower tier municipality
81	Conservation authority
81	Ministry of Natural Resources
65	Ministry of Environment and Energy
62	Upper tier municipality
48	Public
28	Other agencies
22	Ministry of Agriculture, Food and Rural Affairs
18	Ministry of Transportation
18	Ministry of Municipal Affairs and Housing
10	Municipal health unit
7	Ministry of Northern Development and Mines

NOTE: *Other Agencies included local green groups, clubs, businesses, school boards, universities, federal agencies, Ontario Hydro, and consultants.*

CHAPTER 4

conclusion

The initiation of 87 watershed studies in Ontario between 1990 and 1995 indicates interest and support for watershed management. By using the data provided in this report, the reader is able to identify where watershed management is occurring, the agencies involved, typical study area characteristics, common land use and resource protection issues as well as relative costs. This information was intended to promote awareness and increase communication so that watershed management in Ontario continues to evolve and improve.

Missing projects?

If you are aware of a watershed management project that is not listed in *Table 1*, page 3, please fill out the Registration Form found in *Appendix C*, page 103, and send it to one of the individuals listed.

glossary

Best management practices: innovative actions that can be taken to improve the efficiency and effectiveness of watershed management activities and planning.

Catchment area: an area which drains into a river or body of water.

Ecosystem: is composed of air, water, land and living organisms, and the interactions among them.

Ecosystem approach: is usually associated with environmental protection and resource management. It requires the consideration of cumulative effects on the physical, chemical and biological components of the ecosystem as well as relationships among the environment, the economy and society.

Integration: the study of the entire watershed including the interrelationships between all the scientific components of watershed management.

Lead agency: the organization that is facilitating or co-ordinating the watershed management project.

Practitioners: those who are involved in watershed management. They include conservation authorities, provincial ministries, environmental consultants, local residents and citizen groups.

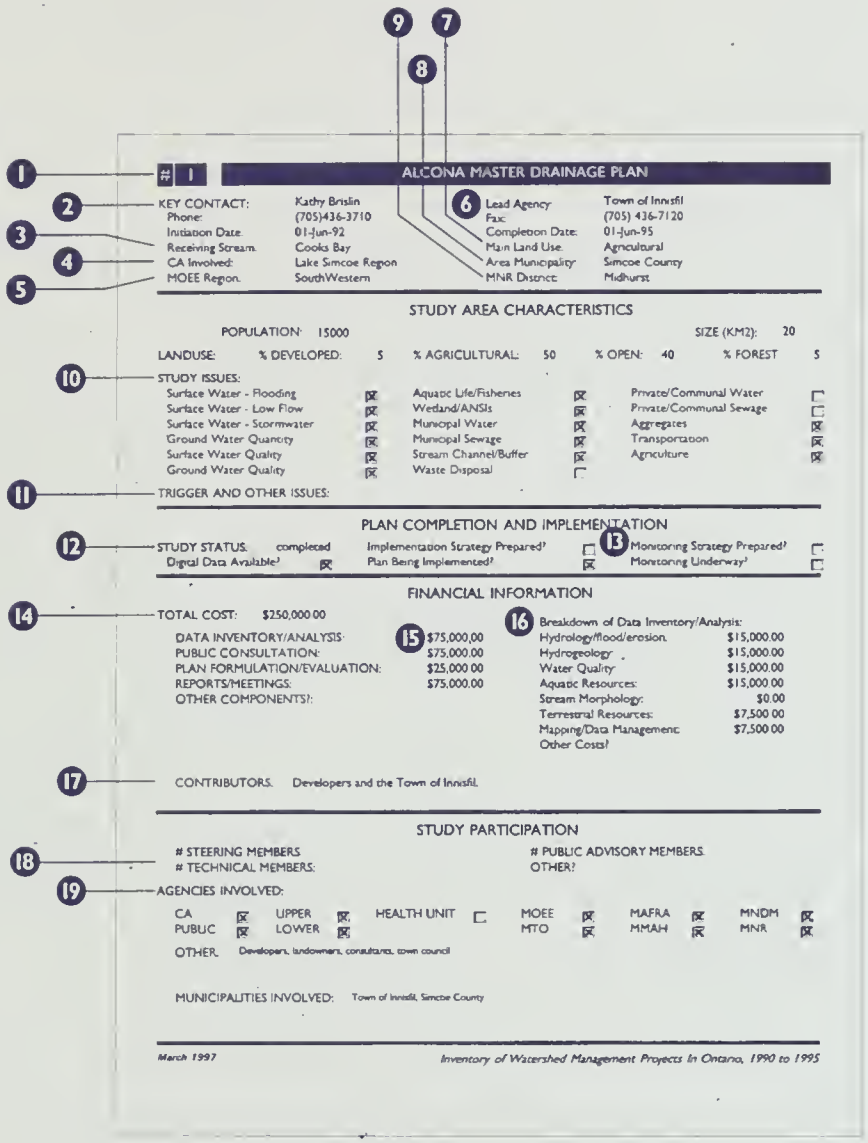
Stewardship: activities and management practices that take care of the watershed.

Sustainable: meets present needs without compromising the ability to meet future needs. Ecosystem sustainability relies on human activities as well as land use and resource management decisions that place importance on the long term health of the environment and the natural resource base.



appendix A:

GUIDE



1 ALCONA MASTER DRAINAGE PLAN

KEY CONTACT: Kathy Brislin
Phone: (705)436-3710
Initiation Date: 01-Jun-92
Receiving Stream: Cooks Bay
CA Involved: Lake Simcoe Region
MOEE Region: SouthWestern

Lead Agency: Town of Innisfil
Fax: (705) 436-7120
Completion Date: 01-Jun-95
Main Land Use: Agricultural
Area Municipality: Simcoe County
MNR District: Midhurst

STUDY AREA CHARACTERISTICS

POPULATION: 15000 SIZE (KM2): 20

LANDUSE: % DEVELOPED: 5 % AGRICULTURAL: 50 % OPEN: 40 % FOREST 5

STUDY ISSUES:

Surface Water - Flooding	☒	Aquatic Life/Fisheries	☒	Private/Communal Water	☐
Surface Water - Low Flow	☒	Wetland/ANSIs	☒	Private/Communal Sewage	☐
Surface Water - Stormwater	☒	Municipal Water	☒	Aggregates	☒
Ground Water Quantity	☒	Municipal Sewage	☒	Transportation	☒
Surface Water Quality	☒	Stream Channel/Buffer	☒	Agriculture	☒
Ground Water Quality	☒	Waste Disposal	☐		

TRIGGER AND OTHER ISSUES:

PLAN COMPLETION AND IMPLEMENTATION

STUDY STATUS: completed
Digital Data Available? ☒
Implementation Strategy Prepared? ☐
Plan Being Implemented? ☒
Monitoring Strategy Prepared? ☐
Monitoring Underway? ☐

FINANCIAL INFORMATION

TOTAL COST: $250,000.00

DATA INVENTORY/ANALYSIS:	$75,000.00
PUBLIC CONSULTATION:	$75,000.00
PLAN FORMULATION/EVALUATION:	$25,000.00
REPORTS/MEETINGS:	$75,000.00
OTHER COMPONENTS?:	

Breakdown of Data Inventory/Analysis:

Hydrology/flood/erosion:	$15,000.00
Hydrogeology:	$15,000.00
Water Quality:	$15,000.00
Aquatic Resources:	$15,000.00
Stream Morphology:	$0.00
Terrestrial Resources:	$7,500.00
Mapping/Data Management:	$7,500.00
Other Costs?	

CONTRIBUTORS: Developers and the Town of Innisfil

STUDY PARTICIPATION

STEERING MEMBERS
TECHNICAL MEMBERS:
PUBLIC ADVISORY MEMBERS
OTHER?

AGENCIES INVOLVED:

CA	☒	UPPER	☒	HEALTH UNIT	☐	MOEE	☒	MAFRA	☒	MNDM	☒
PUBLIC	☒	LOWER	☒			MTO	☒	MMAH	☒	MNR	☒

OTHER: Developers, landowners, consultants, town council

MUNICIPALITIES INVOLVED: Town of Innisfil, Simcoe County

March 1997 *Inventory of Watershed Management Projects In Ontario, 1990 to 1995*

1 The reference number assigned to the project from #1 to #87

2 Person to contact for more information about the project

3 The body of water that is downstream of the study site which helps identify the general location of the project

4 The Conservation authority involved in the project

5 The Ministry of Environment and Energy's regional office within the project area

6 The organization that directed or steered the project

7 The type of land use most found in the project area

8 A larger municipality that can help identify the general location of the project

9 The Ministry of Natural Resources' district office within the project area

10 Issues that pertain to the project are marked with an x

11 The key issue that prompted the initiation of the project

12 Identifies whether the project is ongoing or completed

13 Whether the project is being implemented and a monitoring strategy is in place

14 Where the actual total cost was not available, an estimate was provided

15 Costs associated with the main study components of the project

16 A breakdown of the costs associated with the Data Inventory and Analysis study component

17 Agencies and organizations that helped fund the project

18 The number of members who sat on the various project committees

19 Legend of agencies involved:

CA	Conservation authority
Upper	Upper tier municipality
Lower	Lower tier municipality
MOEE	Ministry of Environment and Energy
MTO	Ministry of Transportation
MAFRA	Ministry of Agriculture Food and Rural Affairs
MMAH	Ministry of Municipal Affairs and Housing
MNDM	Ministry of Northern Development and Mines
MNR	Ministry of Natural Resources

appendix B:

INDIVIDUAL PRINTOUTS

1990-1995

#1 ALCONA MASTER DRAINAGE PLAN

KEY CONTACT:	Kathy Brislin	Lead Agency:	Town of Innisfil
Phone:	(705)436-3710	Fax:	(705) 436-7120
Initiation Date:	01-Jun-92	Completion Date:	01-Jun-95
Receiving Stream:	Cooks Bay	Main Land Use:	Agricultural
CA Involved:	Lake Simcoe Region	Area Municipality:	Simcoe County
MOEE Region:	SouthWestern	MNR District:	Midhurst

STUDY AREA CHARACTERISTICS

POPULATION: 15000 SIZE (KM2): 20

LANDUSE: % DEVELOPED: 5 % AGRICULTURAL: 50 % OPEN: 40 % FOREST: 5

STUDY ISSUES:

Surface Water - Flooding	☒	Aquatic Life/Fisheries	☒	Private/Communal Water	☐
Surface Water - Low Flow	☒	Wetland/ANSIs	☒	Private/Communal Sewage	☐
Surface Water - Stormwater	☒	Municipal Water	☒	Aggregates	☒
Ground Water Quantity	☒	Municipal Sewage	☒	Transportation	☒
Surface Water Quality	☒	Stream Channel/Buffer	☒	Agriculture	☒
Ground Water Quality	☒	Waste Disposal	☐		

TRIGGER AND OTHER ISSUES:

PLAN COMPLETION AND IMPLEMENTATION

STUDY STATUS:	completed	Implementation Strategy Prepared?	☐	Monitoring Strategy Prepared?	☐
Digital Data Available?	☒	Plan Being Implemented?	☒	Monitoring Underway?	☐

FINANCIAL INFORMATION

TOTAL COST: $250,000.00

DATA INVENTORY/ANALYSIS:	$75,000.00
PUBLIC CONSULTATION:	$75,000.00
PLAN FORMULATION/EVALUATION:	$25,000.00
REPORTS/MEETINGS:	$75,000.00
OTHER COMPONENTS?:	

Breakdown of Data Inventory/Analysis:

Hydrology/flood/erosion:	$15,000.00
Hydrogeology:	$15,000.00
Water Quality:	$15,000.00
Aquatic Resources:	$15,000.00
Stream Morphology:	$0.00
Terrestrial Resources:	$7,500.00
Mapping/Data Management:	$7,500.00
Other Costs?	

CONTRIBUTORS: Developers and the Town of Innisfil.

STUDY PARTICIPATION

STEERING MEMBERS:
TECHNICAL MEMBERS:
PUBLIC ADVISORY MEMBERS:
OTHER?

AGENCIES INVOLVED:

CA	☒	UPPER	☒	HEALTH UNIT	☐	MOEE	☒	MAFRA	☒	MNDM	☒
PUBLIC	☒	LOWER	☒			MTO	☒	MMAH	☒	MNR	☒

OTHER: Developers, landowners, consultants, town council

MUNICIPALITIES INVOLVED: Town of Innisfil, Simcoe County

2 ALDER CREEK SUBWATERSHED PLAN - PHASE I

KEY CONTACT:	Gus Rungis	Lead Agency:	Grand River CA
Phone:	(519) 621-2761	Fax:	(519) 621-4844
Initiation Date:	01-Oct-95	Completion Date:	
Receiving Stream:	Nith River	Main Land Use:	Agricultural
CA Involved:	Grand River	Area Municipality:	Region of Waterloo
MOEE Region:	West Central	MNR District:	Cambridge

STUDY AREA CHARACTERISTICS

POPULATION: 4000 SIZE (KM2): 77

LANDUSE: % DEVELOPED: 5 % AGRICULTURAL: 70 % OPEN: 10 % FOREST: 15

STUDY ISSUES:

Surface Water - Flooding	☒	Aquatic Life/Fisheries	☐	Private/Communal Water	☐
Surface Water - Low Flow	☒	Wetland/ANSIs	☐	Private/Communal Sewage	☐
Surface Water - Stormwater	☐	Municipal Water	☐	Aggregates	☒
Ground Water Quantity	☒	Municipal Sewage	☐	Transportation	☐
Surface Water Quality	☒	Stream Channel/Buffer	☐	Agriculture	☐
Ground Water Quality	☒	Waste Disposal	☐		

TRIGGER AND OTHER ISSUES: Developmental pressure.

PLAN COMPLETION AND IMPLEMENTATION

STUDY STATUS: ongoing		Implementation Strategy Prepared?	☐	Monitoring Strategy Prepared?	☐
Digital Data Available?	☒	Plan Being Implemented?	☐	Monitoring Underway?	☐

FINANCIAL INFORMATION

TOTAL COST: $125,000.00

DATA INVENTORY/ANALYSIS:	$125,000.00
PUBLIC CONSULTATION:	$0.00
PLAN FORMULATION/EVALUATION:	$0.00
REPORTS/MEETINGS:	$0.00
OTHER COMPONENTS?: Phase I only.	

Breakdown of Data Inventory/Analysis:

Hydrology/flood/erosion:	$40,000.00
Hydrogeology:	$5,000.00
Water Quality:	$10,000.00
Aquatic Resources:	$15,000.00
Stream Morphology:	$0.00
Terrestrial Resources:	$15,000.00
Mapping/Data Management:	$40,000.00
Other Costs?	

CONTRIBUTORS: Region of Waterloo - 90%; GRCA - 10%

STUDY PARTICIPATION

# STEERING MEMBERS:	10	# PUBLIC ADVISORY MEMBERS:	
# TECHNICAL MEMBERS:	8	OTHER?	

AGENCIES INVOLVED:

CA	☒	UPPER	☒	HEALTH UNIT	☐	MOEE	☐	MAFRA	☐	MNDM	☐
PUBLIC	☐	LOWER	☒			MTO	☐	MMAH	☐	MNR	☒

OTHER:

MUNICIPALITIES INVOLVED: Regional Municipality of Waterloo, Twp. of North Dumfries, Cities of Kitchener and Cambridge, County of Oxford.

#3 ARMITAGE CREEK SUBWATERSHED PLAN

KEY CONTACT:	Lemoir Alexander	Lead Agency:	Marshall Macklin Monaghan Ltd.
Phone:	(905) 882-1100	Fax:	(905) 882-0055
Initiation Date:	01-Jan-92	Completion Date:	
Receiving Stream:	Holland River	Main Land Use:	Developed
CA Involved:	Lake Simcoe Region	Area Municipality:	Reg. Mun. of York
MOEE Region:	Central	MNR District:	Maple

STUDY AREA CHARACTERISTICS

POPULATION: SIZE (KM2):

LANDUSE: % DEVELOPED: % AGRICULTURAL: % OPEN: % FOREST:

STUDY ISSUES:

Surface Water - Flooding	☒	Aquatic Life/Fisheries	☒	Private/Communal Water	☐
Surface Water - Low Flow	☒	Wetland/ANSIs	☒	Private/Communal Sewage	☐
Surface Water - Stormwater	☒	Municipal Water	☐	Aggregates	☐
Ground Water Quantity	☐	Municipal Sewage	☐	Transportation	☐
Surface Water Quality	☒	Stream Channel/Buffer	☒	Agriculture	☐
Ground Water Quality	☐	Waste Disposal	☐		

TRIGGER AND OTHER ISSUES: Development pressure.

PLAN COMPLETION AND IMPLEMENTATION

STUDY STATUS:	ongoing	Implementation Strategy Prepared?	☐	Monitoring Strategy Prepared?	☒
Digital Data Available?	☐	Plan Being Implemented?	☒	Monitoring Underway?	☐

FINANCIAL INFORMATION

TOTAL COST: $80,000.00

DATA INVENTORY/ANALYSIS:	$80,000.00
PUBLIC CONSULTATION:	$0.00
PLAN FORMULATION/EVALUATION:	$0.00
REPORTS/MEETINGS:	$0.00
OTHER COMPONENTS?:	

Breakdown of Data Inventory/Analysis:

Hydrology/flood/erosion:	$62,000.00
Hydrogeology:	$2,000.00
Water Quality:	$10,000.00
Aquatic Resources:	$2,000.00
Stream Morphology:	$2,000.00
Terrestrial Resources:	$2,000.00
Mapping/Data Management:	$0.00
Other Costs?	

CONTRIBUTORS: Developer (Criterion Development Corp.)

STUDY PARTICIPATION

STEERING MEMBERS: # PUBLIC ADVISORY MEMBERS:

TECHNICAL MEMBERS: OTHER?

AGENCIES INVOLVED:

CA	☒	UPPER	☒	HEALTH UNIT	☐	MOEE	☐	MAFRA	☐	MNDM	☐
PUBLIC	☐	LOWER	☒			MTO	☐	MMAH	☐	MNR	☒

OTHER:

MUNICIPALITIES INVOLVED: Town of Aurora, Regional Municipality of York, King Twp. Town of Newmarket

4 AUSABLE-BAYFIELD WATERSHED PLAN REVIEW

KEY CONTACT:	Kate Monk	Lead Agency:	Ausable-Bayfield CA
Phone:	(519)235-2610	Fax:	(519) 235-1963
Initiation Date:	01-Jan-93	Completion Date:	01-Jun-95
Receiving Stream:	Lake Huron	Main Land Use:	Agricultural
CA Involved:	Ausable-Bayfield	Area Municipality:	
MOEE Region:	SouthWestern	MNR District:	Cambridge

STUDY AREA CHARACTERISTICS

POPULATION: 44000 SIZE (KM2): 2442

LANDUSE: % DEVELOPED: 5 % AGRICULTURAL: 78 % OPEN: 5 % FOREST: 12

STUDY ISSUES:

Surface Water - Flooding	☒	Aquatic Life/Fisheries	☐	Private/Communal Water	☒
Surface Water - Low Flow	☒	Wetland/ANSIs	☐	Private/Communal Sewage	☒
Surface Water - Stormwater	☒	Municipal Water	☐	Aggregates	☒
Ground Water Quantity	☒	Municipal Sewage	☐	Transportation	☐
Surface Water Quality	☒	Stream Channel/Buffer	☐	Agriculture	☒
Ground Water Quality	☐	Waste Disposal	☐		

TRIGGER AND OTHER ISSUES: Resource protection.

PLAN COMPLETION AND IMPLEMENTATION

STUDY STATUS:	completed	Implementation Strategy Prepared?	☒	Monitoring Strategy Prepared?	☐
Digital Data Available?	☐	Plan Being Implemented?	☒	Monitoring Underway?	☐

FINANCIAL INFORMATION

TOTAL COST: $80,000.00

		Breakdown of Data Inventory/Analysis:
DATA INVENTORY/ANALYSIS:	$20,000.00	Hydrology/flood/erosion:
PUBLIC CONSULTATION:	$25,000.00	Hydrogeology:
PLAN FORMULATION/EVALUATION:	$17,500.00	Water Quality:
REPORTS/MEETINGS:	$17,500.00	Aquatic Resources:
OTHER COMPONENTS?:		Stream Morphology:
		Terrestrial Resources:
		Mapping/Data Management:
		Other Costs?

CONTRIBUTORS:

STUDY PARTICIPATION

# STEERING MEMBERS:	3	# PUBLIC ADVISORY MEMBERS:	23
# TECHNICAL MEMBERS:	8	OTHER?	

AGENCIES INVOLVED:

CA	☒	UPPER	☒	HEALTH UNIT	☒	MOEE	☒	MAFRA	☒	MNDM	☒
PUBLIC	☒	LOWER	☒			MTO	☒	MMAH	☒	MNR	☒

OTHER:

MUNICIPALITIES INVOLVED: 32 lower tier Municipalities within the Counties of Middlesex, Lanark, Huron, Perth.

5 BIG CREEK TRIBUTARY /SPRINGVALLEY SUBWATERSHED MASTER PLAN

KEY CONTACT:	Richard Tupholme	Lead Agency:	Town of Ancaster
Phone:	(416)648-4401	Fax:	(416) 648-3557
Initiation Date:	01-May-92	Completion Date:	01-Oct-94
Receiving Stream:	Big Creek	Main Land Use:	Agricultural
CA Involved:	Grand River	Area Municipality:	Town of Ancaster
MOEE Region:	West Central	MNR District:	Cambridge

STUDY AREA CHARACTERISTICS

POPULATION: 500 SIZE (KM2): 9

LANDUSE: % DEVELOPED: 0 % AGRICULTURAL: 44 % OPEN: 40 % FOREST: 16

STUDY ISSUES:

Surface Water - Flooding	☒	Aquatic Life/Fisheries	☒	Private/Communal Water	☐
Surface Water - Low Flow	☒	Wetland/ANSIs	☒	Private/Communal Sewage	☐
Surface Water - Stormwater	☒	Municipal Water	☐	Aggregates	☐
Ground Water Quantity	☒	Municipal Sewage	☐	Transportation	☐
Surface Water Quality	☒	Stream Channel/Buffer	☒	Agriculture	☐
Ground Water Quality	☒	Waste Disposal	☐		

TRIGGER AND OTHER ISSUES: Development pressure.

PLAN COMPLETION AND IMPLEMENTATION

STUDY STATUS: completed		Implementation Strategy Prepared?	☒	Monitoring Strategy Prepared?	☐
Digital Data Available?	☒	Plan Being Implemented?	☒	Monitoring Underway?	☐

FINANCIAL INFORMATION

TOTAL COST: $110,000.00

DATA INVENTORY/ANALYSIS:	$80,000.00
PUBLIC CONSULTATION:	$5,000.00
PLAN FORMULATION/EVALUATION:	$15,000.00
REPORTS/MEETINGS:	$10,000.00
OTHER COMPONENTS?:	

Breakdown of Data Inventory/Analysis:

Hydrology/flood/erosion:	$48,000.00
Hydrogeology:	$7,000.00
Water Quality:	$2,000.00
Aquatic Resources:	$4,000.00
Stream Morphology:	$0.00
Terrestrial Resources:	$4,000.00
Mapping/Data Management:	$15,000.00
Other Costs?	

CONTRIBUTORS: Developers - 100%

STUDY PARTICIPATION

# STEERING MEMBERS:	5	# PUBLIC ADVISORY MEMBERS:	0
# TECHNICAL MEMBERS:	5	OTHER?	

AGENCIES INVOLVED:

CA	☒	UPPER	☐	HEALTH UNIT	☐	MOEE	☒	MAFRA	☒	MNDM	☐
PUBLIC	☐	LOWER	☒			MTO	☒	MMAH	☐	MNR	☒

OTHER:

MUNICIPALITIES INVOLVED: Town of Ancaster

#6 BLAIR-BECHTEL CREEKS WATERSHED PLAN

KEY CONTACT:	Lorrie Minshall	Lead Agency:	Grand River CA
Phone:	(519)621-2761	Fax:	(519) 621-4844
Initiation Date:	01-Jan-93	Completion Date:	01-May-96
Receiving Stream:	Grand River	Main Land Use:	Agricultural
CA Involved:	Grand River	Area Municipality:	Reg. Mun. of Waterloo
MOEE Region:	West Central	MNR District:	Cambridge

STUDY AREA CHARACTERISTICS

POPULATION: 2000 SIZE (KM2): 26

LANDUSE: % DEVELOPED: 5 % AGRICULTURAL: 50 % OPEN: 15 % FOREST: 30

STUDY ISSUES:

Surface Water - Flooding	☒	Aquatic Life/Fisheries	☒	Private/Communal Water	☒
Surface Water - Low Flow	☒	Wetland/ANSIs	☒	Private/Communal Sewage	☐
Surface Water - Stormwater	☒	Municipal Water	☐	Aggregates	☒
Ground Water Quantity	☒	Municipal Sewage	☒	Transportation	☒
Surface Water Quality	☒	Stream Channel/Buffer	☒	Agriculture	☐
Ground Water Quality	☒	Waste Disposal	☐		

TRIGGER AND OTHER ISSUES: Development.

PLAN COMPLETION AND IMPLEMENTATION

STUDY STATUS:	completed	Implementation Strategy Prepared?	☒	Monitoring Strategy Prepared?	☐
Digital Data Available?	☒	Plan Being Implemented?	☒	Monitoring Underway?	☒

FINANCIAL INFORMATION

TOTAL COST: $310,000.00

DATA INVENTORY/ANALYSIS:	$190,000.00
PUBLIC CONSULTATION:	$20,000.00
PLAN FORMULATION/EVALUATION:	$35,000.00
REPORTS/MEETINGS:	$65,000.00
OTHER COMPONENTS?:	

Breakdown of Data Inventory/Analysis:

Hydrology/flood/erosion:	$35,000.00
Hydrogeology:	$65,000.00
Water Quality:	$25,000.00
Aquatic Resources:	$10,000.00
Stream Morphology:	$10,000.00
Terrestrial Resources:	$20,000.00
Mapping/Data Management:	$25,000.00
Other Costs?	

CONTRIBUTORS: Province 37.5% in 94; 50% in 93; City of Kitchener; RDC; GRCA;

STUDY PARTICIPATION

# STEERING MEMBERS:	10	# PUBLIC ADVISORY MEMBERS:	2
# TECHNICAL MEMBERS:		OTHER?	

AGENCIES INVOLVED:

CA	☒	UPPER	☒	HEALTH UNIT	☐	MOEE	☒	MAFRA	☐	MNDM	☐
PUBLIC.	☐	LOWER	☒			MTO	☐	MMAH	☐	MNR	☒

OTHER:

MUNICIPALITIES INVOLVED: Region of Waterloo, City of Kitchener, Twp. of Wilmot, County of Oxford.

7 BRUCE CREEK ENVIRONMENTAL MANAGEMENT PLAN

KEY CONTACT:	Les Arishenkoff	Lead Agency:	Town of Markham
Phone:	(905)477-7000 ext. 302	Fax:	(905) 479-7766
Initiation Date:	01-Oct-93	Completion Date:	01-May-94
Receiving Stream:	Little Rouge River	Main Land Use:	Agricultural
CA Involved:	Metro Toronto and Region	Area Municipality:	Reg. Mun. of York
MOEE Region:	Central	MNR District:	Maple

STUDY AREA CHARACTERISTICS

POPULATION: 7000 SIZE (KM2): 36

LANDUSE: % DEVELOPED: 15 % AGRICULTURAL: 70 % OPEN: 5 % FOREST: 10

STUDY ISSUES:

Surface Water - Flooding	☒	Aquatic Life/Fisheries	☒	Private/Communal Water	☐
Surface Water - Low Flow	☒	Wetland/ANSIs	☐	Private/Communal Sewage	☐
Surface Water - Stormwater	☒	Municipal Water	☒	Aggregates	☐
Ground Water Quantity	☒	Municipal Sewage	☒	Transportation	☒
Surface Water Quality	☒	Stream Channel/Buffer	☒	Agriculture	☒
Ground Water Quality	☒	Waste Disposal	☐		

TRIGGER AND OTHER ISSUES: Development/urban expansion/terrestrial.

PLAN COMPLETION AND IMPLEMENTATION

STUDY STATUS:	completed	Implementation Strategy Prepared?	☒	Monitoring Strategy Prepared?	☐
Digital Data Available?	☒	Plan Being Implemented?	☒	Monitoring Underway?	☐

FINANCIAL INFORMATION

TOTAL COST: $50,000.00

DATA INVENTORY/ANALYSIS:
PUBLIC CONSULTATION:
PLAN FORMULATION/EVALUATION:
REPORTS/MEETINGS:
OTHER COMPONENTS?:

Breakdown of Data Inventory/Analysis:
Hydrology/flood/erosion:
Hydrogeology:
Water Quality:
Aquatic Resources:
Stream Morphology:
Terrestrial Resources:
Mapping/Data Management:
Other Costs?

CONTRIBUTORS: Developer 100%

STUDY PARTICIPATION

STEERING MEMBERS:
TECHNICAL MEMBERS: 10
PUBLIC ADVISORY MEMBERS:
OTHER? Two public meetings.

AGENCIES INVOLVED:

CA	☒	UPPER	☐	HEALTH UNIT	☐	MOEE	☒	MAFRA	☐	MNDM	☐
PUBLIC	☒	LOWER	☒			MTO	☐	MMAH	☐	MNR	☒

OTHER:

MUNICIPALITIES INVOLVED: Town of Markham, Village of Bethesda, Gormley, Unionville, Victoria Square

8 BURNDENET CREEK ENVIRONMENTAL MANAGEMENT PLAN

KEY CONTACT:	Les Arishenkoff	Lead Agency:	Town of Markham
Phone:	(905)477-7000 ext. 302	Fax:	(905) 479-7766
Initiation Date:	01-Oct-93	Completion Date:	01-May-94
Receiving Stream:	Little Rouge River	Main Land Use:	Agricultural
CA Involved:	Metro Toronto and Region	Area Municipality:	Reg. Mun. of York
MOEE Region:	Central	MNR District:	Maple

STUDY AREA CHARACTERISTICS

POPULATION: 10000 SIZE (KM2): 5

LANDUSE: % DEVELOPED: 35 % AGRICULTURAL: 55 % OPEN: 5 % FOREST: 5

STUDY ISSUES:

Surface Water - Flooding	☒	Aquatic Life/Fisheries	☒	Private/Communal Water	☐
Surface Water - Low Flow	☒	Wetland/ANSIs	☐	Private/Communal Sewage	☐
Surface Water - Stormwater	☒	Municipal Water	☒	Aggregates	☐
Ground Water Quantity	☒	Municipal Sewage	☒	Transportation	☒
Surface Water Quality	☒	Stream Channel/Buffer	☒	Agriculture	☒
Ground Water Quality	☒	Waste Disposal	☐		

TRIGGER AND OTHER ISSUES: Development/urban expansion/terrestrial.

PLAN COMPLETION AND IMPLEMENTATION

STUDY STATUS:	completed	Implementation Strategy Prepared?	☒	Monitoring Strategy Prepared?	☐
Digital Data Available?	☒	Plan Being Implemented?	☒	Monitoring Underway?	☐

FINANCIAL INFORMATION

TOTAL COST: $50,000.00

DATA INVENTORY/ANALYSIS:
PUBLIC CONSULTATION:
PLAN FORMULATION/EVALUATION:
REPORTS/MEETINGS:
OTHER COMPONENTS?:

Breakdown of Data Inventory/Analysis:
Hydrology/flood/erosion:
Hydrogeology:
Water Quality:
Aquatic Resources:
Stream Morphology:
Terrestrial Resources:
Mapping/Data Management:
Other Costs?

CONTRIBUTORS: Developer 100%

STUDY PARTICIPATION

STEERING MEMBERS:
TECHNICAL MEMBERS: 10
PUBLIC ADVISORY MEMBERS:
OTHER? Two public meetings.

AGENCIES INVOLVED:

CA	☒	UPPER	☐	HEALTH UNIT	☐	MOEE	☒	MAFRA	☐	MNDM	☐
PUBLIC	☒	LOWER	☒			MTO	☐	MMAH	☐	MNR	☒

OTHER:

MUNICIPALITIES INVOLVED: Town of Markham

#9 CARP RIVER BASIN STUDY

KEY CONTACT:	Paul Lehman	Lead Agency:	Mississippi Valley CA
Phone:	(613)259-2421	Fax:	(613) 259-3468
Initiation Date:	01-Jan-93	Completion Date:	
Receiving Stream:	Ottawa River	Main Land Use:	Agricultural
CA Involved:	Mississippi Valley	Area Municipality:	Reg. Mun. of Ottawa-Carleton
MOEE Region:	Eastern	MNR District:	Kemptville

STUDY AREA CHARACTERISTICS

POPULATION: 50000 SIZE (KM2): 310

LANDUSE: % DEVELOPED: 3 % AGRICULTURAL: 26 % OPEN: 39 % FOREST: 32

STUDY ISSUES:

Surface Water - Flooding	☒	Aquatic Life/Fisheries	☐	Private/Communal Water	☐
Surface Water - Low Flow	☐	Wetland/ANSIs	☐	Private/Communal Sewage	☐
Surface Water - Stormwater	☒	Municipal Water	☐	Aggregates	☐
Ground Water Quantity	☐	Municipal Sewage	☐	Transportation	☐
Surface Water Quality	☒	Stream Channel/Buffer	☐	Agriculture	☐
Ground Water Quality	☐	Waste Disposal	☐		

TRIGGER AND OTHER ISSUES: Development pressure.

PLAN COMPLETION AND IMPLEMENTATION

STUDY STATUS:	ongoing	Implementation Strategy Prepared?	☐	Monitoring Strategy Prepared?	☒
Digital Data Available?	☒	Plan Being Implemented?	☐	Monitoring Underway?	☒

FINANCIAL INFORMATION

TOTAL COST: $40,000.00

DATA INVENTORY/ANALYSIS:	$40,000.00
PUBLIC CONSULTATION:	$0.00
PLAN FORMULATION/EVALUATION:	$0.00
REPORTS/MEETINGS:	$0.00
OTHER COMPONENTS?:	

Breakdown of Data Inventory/Analysis:

Hydrology/flood/erosion:	$25,000.00
Hydrogeology:	$0.00
Water Quality:	$10,000.00
Aquatic Resources:	$5,000.00
Stream Morphology:	$0.00
Terrestrial Resources:	$0.00
Mapping/Data Management:	$0.00
Other Costs?	

CONTRIBUTORS: Province - 30%, Municipality - 35%, CA - 35%

STUDY PARTICIPATION

STEERING MEMBERS:
TECHNICAL MEMBERS:
PUBLIC ADVISORY MEMBERS:
OTHER?

AGENCIES INVOLVED:

CA	☒	UPPER	☒	HEALTH UNIT	☐	MOEE	☐	MAFRA	☐	MNDM	☐
PUBLIC	☒	LOWER	☒			MTO	☐	MMAH	☐	MNR	☒

OTHER:

MUNICIPALITIES INVOLVED: Regional Municipality of Ottawa-Carleton, Twp. of West Carleton

#10 CAVAN CREEK/OTONABEE RIVER SUBWATERSHED PLAN

KEY CONTACT:	John Merriam	Lead Agency:	Otonabee Region CA
Phone:	(705)745-5791	Fax:	(705) 745-7488
Initiation Date:	01-May-95	Completion Date:	
Receiving Stream:	Otonabee River	Main Land Use:	Agricultural
CA Involved:	Otonabee Region	Area Municipality:	City of Peterborough
MOEE Region:	Eastern	MNR District:	Tweed

STUDY AREA CHARACTERISTICS

POPULATION: 20000 SIZE (KM2): 147

LANDUSE: % DEVELOPED: 10 % AGRICULTURAL: 70 % OPEN: 10 % FOREST: 10

STUDY ISSUES:

Surface Water - Flooding	☒	Aquatic Life/Fisheries	☒	Private/Communal Water	☐
Surface Water - Low Flow	☒	Wetland/ANSIs	☒	Private/Communal Sewage	☐
Surface Water - Stormwater	☒	Municipal Water	☐	Aggregates	☐
Ground Water Quantity	☐	Municipal Sewage	☐	Transportation	☐
Surface Water Quality	☒	Stream Channel/Buffer	☐	Agriculture	☐
Ground Water Quality	☐	Waste Disposal	☐		

TRIGGER AND OTHER ISSUES: Resource protection.

PLAN COMPLETION AND IMPLEMENTATION

STUDY STATUS: ongoing		Implementation Strategy Prepared?	☐	Monitoring Strategy Prepared?	☐
Digital Data Available?	☐	Plan Being Implemented?	☐	Monitoring Underway?	☐

FINANCIAL INFORMATION

TOTAL COST: $67,496.00

DATA INVENTORY/ANALYSIS:	$40,000.00
PUBLIC CONSULTATION:	$10,000.00
PLAN FORMULATION/EVALUATION:	$10,000.00
REPORTS/MEETINGS:	$8,000.00
OTHER COMPONENTS?:	

Breakdown of Data Inventory/Analysis:

Hydrology/flood/erosion:	$15,000.00
Hydrogeology:	$3,000.00
Water Quality:	$3,000.00
Aquatic Resources:	$5,000.00
Stream Morphology:	$5,000.00
Terrestrial Resources:	$5,000.00
Mapping/Data Management:	$4,000.00
Other Costs?	

CONTRIBUTORS: MNR - 50%; City of Peterborough - 50%

STUDY PARTICIPATION

# STEERING MEMBERS:	8	# PUBLIC ADVISORY MEMBERS:	
# TECHNICAL MEMBERS:	8	OTHER?	

AGENCIES INVOLVED:

CA	☒	UPPER	☐	HEALTH UNIT	☐	MOEE	☐	MAFRA	☐	MNDM	☐
PUBLIC	☐	LOWER	☒			MTO	☐	MMAH	☐	MNR	☒

OTHER:

MUNICIPALITIES INVOLVED: Twp. of Cavan, N. Monaghan, City of Peterborough.

#11 CENTENNIAL CREEK SUBWATERSHED PLAN

KEY CONTACT:	Peter Cookson	Lead Agency:	City of Scarborough
Phone:	(416) 396-7156	Fax:	(416) 396-6920
Initiation Date:	01-Jun-93	Completion Date:	
Receiving Stream:	Highland Creek	Main Land Use:	Developed
CA Involved:	Metro Toronto and Region	Area Municipality:	City of Scarborough
MOEE Region:	Central	MNR District:	Maple

STUDY AREA CHARACTERISTICS

POPULATION: 75000 SIZE (KM2): 12

LANDUSE: % DEVELOPED: 74 % AGRICULTURAL: 10 % OPEN: 1 % FOREST: 15

STUDY ISSUES:

Surface Water - Flooding	☒	Aquatic Life/Fisheries	☒	Private/Communal Water	☐
Surface Water - Low Flow	☒	Wetland/ANSIs	☐	Private/Communal Sewage	☐
Surface Water - Stormwater	☒	Municipal Water	☐	Aggregates	☐
Ground Water Quantity	☐	Municipal Sewage	☐	Transportation	☒
Surface Water Quality	☒	Stream Channel/Buffer	☒	Agriculture	☐
Ground Water Quality	☒	Waste Disposal	☐		

TRIGGER AND OTHER ISSUES: Channelization/remediation/urbanization.

PLAN COMPLETION AND IMPLEMENTATION

STUDY STATUS:	ongoing	Implementation Strategy Prepared?	☐	Monitoring Strategy Prepared?	☒
Digital Data Available?	☒	Plan Being Implemented?	☒	Monitoring Underway?	☒

FINANCIAL INFORMATION

TOTAL COST: $500,000.00

DATA INVENTORY/ANALYSIS:	$345,000.00
PUBLIC CONSULTATION:	$30,000.00
PLAN FORMULATION/EVALUATION:	$50,000.00
REPORTS/MEETINGS:	$75,000.00
OTHER COMPONENTS?:	

Breakdown of Data Inventory/Analysis:

Hydrology/flood/erosion:	$135,000.00
Hydrogeology:	$25,000.00
Water Quality:	$55,000.00
Aquatic Resources:	$50,000.00
Stream Morphology:	$0.00
Terrestrial Resources:	$50,000.00
Mapping/Data Management:	$30,000.00
Other Costs?	

CONTRIBUTORS: City of Scarborough: 100%

STUDY PARTICIPATION

# STEERING MEMBERS:	18	# PUBLIC ADVISORY MEMBERS:	10
# TECHNICAL MEMBERS:	10	OTHER?	

AGENCIES INVOLVED:

CA	☒	UPPER	☐	HEALTH UNIT	☐	MOEE	☒	MAFRA	☐	MNDM	☐
PUBLIC	☒	LOWER	☒			MTO	☒	MMAH	☐	MNR	☒

OTHER: Save the Rouge Assoc.

MUNICIPALITIES INVOLVED: City of Scarborough

#12 CHIPPEWA CREEK SUBWATERSHED PLAN

KEY CONTACT:	Bill Beckett	Lead Agency:	North Bay-Mattawa CA
Phone:	(705) 474-5420	Fax:	(705) 474-9793
Initiation Date:	01-Jul-94	Completion Date:	01-Jun-96
Receiving Stream:	Lake Nippising	Main Land Use:	Developed
CA Involved:	North Bay-Mattawa	Area Municipality:	City of North Bay
MOEE Region:	Northern	MNR District:	North Bay

STUDY AREA CHARACTERISTICS

POPULATION: 10000 SIZE (KM2): 40

LANDUSE: % DEVELOPED: 45 % AGRICULTURAL: 0 % OPEN: 55 % FOREST: 0

STUDY ISSUES:

Surface Water - Flooding	☒	Aquatic Life/Fisheries	☐	Private/Communal Water	☐
Surface Water - Low Flow	☐	Wetland/ANSIs	☒	Private/Communal Sewage	☐
Surface Water - Stormwater	☐	Municipal Water	☐	Aggregates	☐
Ground Water Quantity	☐	Municipal Sewage	☐	Transportation	☐
Surface Water Quality	☒	Stream Channel/Buffer	☐	Agriculture	☐
Ground Water Quality	☐	Waste Disposal	☐		

TRIGGER AND OTHER ISSUES: Development pressure (City landfill site in upper reaches of watershed).

PLAN COMPLETION AND IMPLEMENTATION

STUDY STATUS: ongoing		Implementation Strategy Prepared?	☐	Monitoring Strategy Prepared?	☐
Digital Data Available?	☐	Plan Being Implemented?	☐	Monitoring Underway?	☐

FINANCIAL INFORMATION

TOTAL COST: $116,000.00

DATA INVENTORY/ANALYSIS:	$37,500.00
PUBLIC CONSULTATION:	$6,250.00
PLAN FORMULATION/EVALUATION:	$46,250.00
REPORTS/MEETINGS:	$26,000.00
OTHER COMPONENTS?: Archeology -	

Breakdown of Data Inventory/Analysis:

Hydrology/flood/erosion:	$13,750.00
Hydrogeology:	$6,250.00
Water Quality:	$5,000.00
Aquatic Resources:	$3,750.00
Stream Morphology:	$0.00
Terrestrial Resources:	$3,750.00
Mapping/Data Management:	$5,000.00
Other Costs?	

CONTRIBUTORS: MNR: 37.5%, City of North Bay, NBMCA

STUDY PARTICIPATION

# STEERING MEMBERS:	18	# PUBLIC ADVISORY MEMBERS:	9
# TECHNICAL MEMBERS:	15	OTHER?	

AGENCIES INVOLVED:

CA	☒	UPPER	☐	HEALTH UNIT	☒	MOEE	☒	MAFRA	☐	MNDM	☐
PUBLIC	☒	LOWER	☒			MTO	☐	MMAH	☐	MNR	☒

OTHER:

MUNICIPALITIES INVOLVED: City of North Bay

#13 CITY OF VAUGHAN SUBWATERSHED STUDY

KEY CONTACT:	Paul Robinson	Lead Agency:	City of Vaughan
Phone:	(905) 832-2281	Fax:	(905) 832-6080
Initiation Date:	01-Jun-92	Completion Date:	01-Jun-94
Receiving Stream:	Don & Humber Rivers	Main Land Use:	Agricultural
CA Involved:	Metro Toronto and Region	Area Municipality:	City of Vaughan
MOEE Region:	Central	MNR District:	Maple

STUDY AREA CHARACTERISTICS

POPULATION: 25000 SIZE (KM2): 100

LANDUSE: % DEVELOPED: 15 % AGRICULTURAL: 60 % OPEN: 15 % FOREST: 10

STUDY ISSUES:

Surface Water - Flooding	☒	Aquatic Life/Fisheries	☒	Private/Communal Water	☐
Surface Water - Low Flow	☒	Wetland/ANSIs	☐	Private/Communal Sewage	☐
Surface Water - Stormwater	☒	Municipal Water	☒	Aggregates	☐
Ground Water Quantity	☒	Municipal Sewage	☒	Transportation	☒
Surface Water Quality	☒	Stream Channel/Buffer	☒	Agriculture	☒
Ground Water Quality	☒	Waste Disposal	☐		

TRIGGER AND OTHER ISSUES: Official Plan review and development pressure.

PLAN COMPLETION AND IMPLEMENTATION

STUDY STATUS:	completed	Implementation Strategy Prepared?	☒	Monitoring Strategy Prepared?	☐
Digital Data Available?	☐	Plan Being Implemented?	☒	Monitoring Underway?	☐

FINANCIAL INFORMATION

TOTAL COST: $185,000.00

DATA INVENTORY/ANALYSIS:	$75,000.00
PUBLIC CONSULTATION:	$10,000.00
PLAN FORMULATION/EVALUATION:	$40,000.00
REPORTS/MEETINGS:	$50,000.00
OTHER COMPONENTS?: $10,000	

Breakdown of Data Inventory/Analysis:

Hydrology/flood/erosion:	$8,000.00
Hydrogeology:	$15,000.00
Water Quality:	$8,000.00
Aquatic Resources:	$10,000.00
Stream Morphology:	$8,000.00
Terrestrial Resources:	$16,000.00
Mapping/Data Management:	$10,000.00
Other Costs?	

CONTRIBUTORS: Municipal - 100% (recoverable by future development charges)

STUDY PARTICIPATION

# STEERING MEMBERS:	0	# PUBLIC ADVISORY MEMBERS:	15
# TECHNICAL MEMBERS:	8	OTHER?	

AGENCIES INVOLVED:

CA	☒	UPPER	☒	HEALTH UNIT	☐	MOEE	☒	MAFRA	☒	MNDM	☐
PUBLIC	☒	LOWER	☒			MTO	☒	MMAH	☒	MNR	☒

OTHER:

MUNICIPALITIES INVOLVED: City of Vaughan, York Region.

#14 COLLINS CREEK WATERSHED STUDY

KEY CONTACT:	Karla Maki-Esdon	Lead Agency:	Cataraqui Region CA
Phone:	(613) 546-4228	Fax:	(613) 547-6474
Initiation Date:	01-Jan-90	Completion Date:	31-Jan-94
Receiving Stream:	Lake Ontario	Main Land Use:	Agricultural
CA Involved:	Cataraqui Region	Area Municipality:	Twp. of Kingston & Twp. of Storrington
MOEE Region:	Eastern	MNR District:	Tweed

STUDY AREA CHARACTERISTICS

POPULATION: SIZE (KM2): 166

LANDUSE: % DEVELOPED: 5 % AGRICULTURAL: 40 % OPEN: 30 % FOREST: 20

STUDY ISSUES:

Surface Water - Flooding	☒	Aquatic Life/Fisheries	☒	Private/Communal Water	☒
Surface Water - Low Flow	☒	Wetland/ANSIs	☒	Private/Communal Sewage	☒
Surface Water - Stormwater	☒	Municipal Water	☐	Aggregates	☐
Ground Water Quantity	☒	Municipal Sewage	☐	Transportation	☐
Surface Water Quality	☒	Stream Channel/Buffer	☐	Agriculture	☒
Ground Water Quality	☒	Waste Disposal	☐		

TRIGGER AND OTHER ISSUES: Development pressure.

PLAN COMPLETION AND IMPLEMENTATION

STUDY STATUS:	completed	Implementation Strategy Prepared?	☒	Monitoring Strategy Prepared?	☐
Digital Data Available?	☐	Plan Being Implemented?	☒	Monitoring Underway?	☐

FINANCIAL INFORMATION

TOTAL COST: $285,000.00

DATA INVENTORY/ANALYSIS:
PUBLIC CONSULTATION:
PLAN FORMULATION/EVALUATION:
REPORTS/MEETINGS:
OTHER COMPONENTS?:

Breakdown of Data Inventory/Analysis:
Hydrology/flood/erosion:
Hydrogeology:
Water Quality:
Aquatic Resources:
Stream Morphology:
Terrestrial Resources:
Mapping/Data Management:
Other Costs?

CONTRIBUTORS: Province - 50%; CA - 25%; Storrington - 12.5%; Kingston twp- 12.5%

STUDY PARTICIPATION

STEERING MEMBERS: 14
TECHNICAL MEMBERS:
PUBLIC ADVISORY MEMBERS:
OTHER?

AGENCIES INVOLVED:

CA	☒	UPPER	☐	HEALTH UNIT	☒	MOEE	☒	MAFRA	☒	MNDM	☐
PUBLIC	☐	LOWER	☒			MTO	☐	MMAH	☒	MNR	☒

OTHER: Collins Watershed Assoc., Kingston, Frontenac Homebuilders, Area Farmer, Area Ratepayers, Queens University.

MUNICIPALITIES INVOLVED: Twp. of Kingston, and Twp. of Storrington

#15 D'AUBIGNY CREEK SUBWATERSHED PLAN

KEY CONTACT:	Gus Rungis	Lead Agency:	Developer
Phone:	(519) 621-2761	Fax:	(519) 621-4844
Initiation Date:	01-Jan-90	Completion Date:	01-Mar-92
Receiving Stream:	Grand River	Main Land Use:	Agricultural
CA Involved:	Grand River	Area Municipality:	City of Brantford
MOEE Region:	West Central	MNR District:	Cambridge

STUDY AREA CHARACTERISTICS

POPULATION: 1000 SIZE (KM2): 16

LANDUSE: % DEVELOPED: 5 % AGRICULTURAL: 70 % OPEN: 5 % FOREST: 20

STUDY ISSUES:

Surface Water - Flooding	☒	Aquatic Life/Fisheries	☒	Private/Communal Water	☐
Surface Water - Low Flow	☒	Wetland/ANSIs	☒	Private/Communal Sewage	☐
Surface Water - Stormwater	☒	Municipal Water	☐	Aggregates	☐
Ground Water Quantity	☐	Municipal Sewage	☐	Transportation	☐
Surface Water Quality	☒	Stream Channel/Buffer	☒	Agriculture	☐
Ground Water Quality	☐	Waste Disposal	☐		

TRIGGER AND OTHER ISSUES: Development pressure.

PLAN COMPLETION AND IMPLEMENTATION

STUDY STATUS: completed		Implementation Strategy Prepared?	☒	Monitoring Strategy Prepared?	☒
Digital Data Available?	☐	Plan Being Implemented?	☒	Monitoring Underway?	☒

FINANCIAL INFORMATION

TOTAL COST: $100,000.00

DATA INVENTORY/ANALYSIS:
PUBLIC CONSULTATION:
PLAN FORMULATION/EVALUATION:
REPORTS/MEETINGS:
OTHER COMPONENTS?:

Breakdown of Data Inventory/Analysis:
Hydrology/flood/erosion:
Hydrogeology:
Water Quality:
Aquatic Resources:
Stream Morphology:
Terrestrial Resources:
Mapping/Data Management:
Other Costs?

CONTRIBUTORS: Developer - 100%

STUDY PARTICIPATION

STEERING MEMBERS: 8
TECHNICAL MEMBERS:
PUBLIC ADVISORY MEMBERS:
OTHER?

AGENCIES INVOLVED:

CA	☒	UPPER	☒	HEALTH UNIT	☐	MOEE	☐	MAFRA	☐	MNDM	☐
PUBLIC	☐	LOWER	☒			MTO	☐	MMAH	☐	MNR	☒

OTHER: Developer.

MUNICIPALITIES INVOLVED: Brant County, City of Brantford, Brantford Twp

#16 DINGMAN CREEK SUBWATERSHED STUDY

KEY CONTACT:	Ron Standish	Lead Agency:	City of London
Phone:	(519) 661-4978	Fax:	(519) 661-5931
Initiation Date:	01-Sep-92	Completion Date:	15-May-95
Receiving Stream:	Thames River	Main Land Use:	Agricultural
CA Involved:	Upper Thames River	Area Municipality:	City of London
MOEE Region:	SouthWestern	MNR District:	Aylmer

STUDY AREA CHARACTERISTICS

POPULATION: SIZE (KM2): 130

LANDUSE: % DEVELOPED: 15 % AGRICULTURAL: 70 % OPEN: 0 % FOREST: 15

STUDY ISSUES:

Surface Water - Flooding	☒	Aquatic Life/Fisheries	☒	Private/Communal Water	☐
Surface Water - Low Flow	☒	Wetland/ANSIs	☐	Private/Communal Sewage	☐
Surface Water - Stormwater	☒	Municipal Water	☐	Aggregates	☒
Ground Water Quantity	☐	Municipal Sewage	☒	Transportation	☐
Surface Water Quality	☒	Stream Channel/Buffer	☒	Agriculture	☒
Ground Water Quality	☐	Waste Disposal	☐		

TRIGGER AND OTHER ISSUES:

PLAN COMPLETION AND IMPLEMENTATION

STUDY STATUS:	completed	Implementation Strategy Prepared?	☐	Monitoring Strategy Prepared?	☐
Digital Data Available?	☒	Plan Being Implemented?	☒	Monitoring Underway?	☐

FINANCIAL INFORMATION

TOTAL COST: $294,000.00

DATA INVENTORY/ANALYSIS:	$126,000.00
PUBLIC CONSULTATION:	$11,000.00
PLAN FORMULATION/EVALUATION:	$143,000.00
REPORTS/MEETINGS:	$14,000.00
OTHER COMPONENTS?:	

Breakdown of Data Inventory/Analysis:

Hydrology/flood/erosion:	$36,000.00
Hydrogeology:	$19,500.00
Water Quality:	$25,500.00
Aquatic Resources:	$8,500.00
Stream Morphology:	$5,500.00
Terrestrial Resources:	$15,000.00
Mapping/Data Management:	$16,000.00
Other Costs?	

CONTRIBUTORS: City of London, Town of Westminster, Ministry of Natural Resources (UTRCA).

STUDY PARTICIPATION

# STEERING MEMBERS:	0	# PUBLIC ADVISORY MEMBERS:	0
# TECHNICAL MEMBERS:	21	OTHER?	

AGENCIES INVOLVED:

CA	☒	UPPER	☒	HEALTH UNIT	☐	MOEE	☒	MAFRA	☐	MNDM	☐
PUBLIC	☒	LOWER	☒			MTO	☐	MMAH	☐	MNR	☒

OTHER: London Development Institute, City of London - Environmental & Ecological Planning Advisory Committee, Agricultural Advisory Committee.

MUNICIPALITIES INVOLVED: City of London.

#17 DODD/KETTLE CREEK/LYNHURST SUBWATERSHED PLAN

KEY CONTACT:	John Dewancker	Lead Agency:	City of St. Thomas
Phone:	(519)631-1680	Fax:	(905) 633-9017
Initiation Date:	01-Oct-94	Completion Date:	01-May-96
Receiving Stream:	Kettle Creek	Main Land Use:	Agricultural
CA Involved:	Kettle Creek	Area Municipality:	City of St. Thomas
MOEE Region:	SouthWestern	MNR District:	Alymer

STUDY AREA CHARACTERISTICS

POPULATION: 400 SIZE (KM2): 18

LANDUSE: % DEVELOPED: 6 % AGRICULTURAL: 72 % OPEN: 9 % FOREST: 13

STUDY ISSUES:

Surface Water - Flooding	☒	Aquatic Life/Fisheries	☒	Private/Communal Water	☐
Surface Water - Low Flow	☒	Wetland/ANSIs	☒	Private/Communal Sewage	☐
Surface Water - Stormwater	☒	Municipal Water	☐	Aggregates	☐
Ground Water Quantity	☒	Municipal Sewage	☐	Transportation	☐
Surface Water Quality	☒	Stream Channel/Buffer	☒	Agriculture	☒
Ground Water Quality	☒	Waste Disposal	☐		

TRIGGER AND OTHER ISSUES: Development pressure.

PLAN COMPLETION AND IMPLEMENTATION

STUDY STATUS: completed		Implementation Strategy Prepared?	☒	Monitoring Strategy Prepared?	☒
Digital Data Available?	☐	Plan Being Implemented?	☒	Monitoring Underway?	☐

FINANCIAL INFORMATION

TOTAL COST: $120,000.00

DATA INVENTORY/ANALYSIS:	$70,000.00
PUBLIC CONSULTATION:	$10,000.00
PLAN FORMULATION/EVALUATION:	$20,000.00
REPORTS/MEETINGS:	$20,000.00
OTHER COMPONENTS?:	

Breakdown of Data Inventory/Analysis:

Hydrology/flood/erosion:	$30,000.00
Hydrogeology:	$10,000.00
Water Quality:	$5,000.00
Aquatic Resources:	$8,000.00
Stream Morphology:	$2,000.00
Terrestrial Resources:	$10,000.00
Mapping/Data Management:	$5,000.00
Other Costs?	

CONTRIBUTORS: Southwold -15%, Yarmouth - 15%, CA/MNR - 20%, Developers 50%

STUDY PARTICIPATION

# STEERING MEMBERS:	14	# PUBLIC ADVISORY MEMBERS:	0
# TECHNICAL MEMBERS:	14	OTHER?	

AGENCIES INVOLVED:

CA	☒	UPPER	☒	HEALTH UNIT	☐	MOEE	☒	MAFRA	☒	MNDM	☐
PUBLIC	☒	LOWER	☒			MTO	☐	MMAH	☒	MNR	☒

OTHER: Central Elgin Planning Office

MUNICIPALITIES INVOLVED: City of St. Thomas, Twonship of Yarmouth, Township of Southwold

#18 DON RIVER WATERSHED STRATEGY

KEY CONTACT:	Adele Freeman	Lead Agency:	Metro Toronto and Region CA
Phone:	(416) 661-6600 ext. 238	Fax:	(416) 661-6898
Initiation Date:	01-Jan-92	Completion Date:	01-Dec-94
Receiving Stream:	Lake Ontario	Main Land Use:	Developed
CA Involved:	Metro Toronto and Region	Area Municipality:	Reg. Mun. of York
MOEE Region:	Central	MNR District:	Maple

STUDY AREA CHARACTERISTICS

POPULATION: 800000 SIZE (KM2): 360

LANDUSE: % DEVELOPED: 80 % AGRICULTURAL: 20 % OPEN: 33 % FOREST: 8

STUDY ISSUES:

Surface Water - Flooding	☒	Aquatic Life/Fisheries	☒	Private/Communal Water	☐
Surface Water - Low Flow	☒	Wetland/ANSIs	☒	Private/Communal Sewage	☐
Surface Water - Stormwater	☒	Municipal Water	☐	Aggregates	☐
Ground Water Quantity	☒	Municipal Sewage	☐	Transportation	☐
Surface Water Quality	☒	Stream Channel/Buffer	☒	Agriculture	☐
Ground Water Quality	☐	Waste Disposal	☐		

TRIGGER AND OTHER ISSUES: Remediation/watershed study and remedial action plan.

PLAN COMPLETION AND IMPLEMENTATION

STUDY STATUS:	completed	Implementation Strategy Prepared?	☒	Monitoring Strategy Prepared?	☐
Digital Data Available?	☒	Plan Being Implemented?	☒	Monitoring Underway?	☒

FINANCIAL INFORMATION

TOTAL COST: $400,000.00

DATA INVENTORY/ANALYSIS:
PUBLIC CONSULTATION:
PLAN FORMULATION/EVALUATION:
REPORTS/MEETINGS:
OTHER COMPONENTS?:

Breakdown of Data Inventory/Analysis:
Hydrology/flood/erosion:
Hydrogeology:
Water Quality:
Aquatic Resources:
Stream Morphology:
Terrestrial Resources:
Mapping/Data Management:
Other Costs?

CONTRIBUTORS:

STUDY PARTICIPATION

STEERING MEMBERS:
TECHNICAL MEMBERS:
PUBLIC ADVISORY MEMBERS:
OTHER? 25 members on the Task Force.

AGENCIES INVOLVED:

CA	☒	UPPER	☒	HEALTH UNIT	☐	MOEE	☒	MAFRA	☐	MNDM	☐
PUBLIC	☐	LOWER	☒			MTO	☐	MMAH	☐	MNR	☒

OTHER:

MUNICIPALITIES INVOLVED: Regional Municipality of Metropolitan Toronto, York, City of North York, Vaughan, East York, Markham, Richmond Hill, Toronto, Scarborough.

#19 DOON SOUTH CREEK SUBWATERSHED PLAN

KEY CONTACT:	Dave Mansell	Lead Agency:	City of Kitchener
Phone:	(519) 741-2419	Fax:	(519) 741-2633
Initiation Date:	01-Jan-93	Completion Date:	31-Oct-94
Receiving Stream:	Strasburg Creek	Main Land Use:	Agricultural
CA Involved:	Grand River	Area Municipality:	Reg. Mun. of Waterloo
MOEE Region:	West Central	MNR District:	Cambridge

STUDY AREA CHARACTERISTICS

POPULATION: 600 SIZE (KM2): 4

LANDUSE: % DEVELOPED: 10 % AGRICULTURAL: 40 % OPEN: 40 % FOREST: 10

STUDY ISSUES:

Surface Water - Flooding	☒	Aquatic Life/Fisheries	☒	Private/Communal Water	☐
Surface Water - Low Flow	☐	Wetland/ANSIs	☒	Private/Communal Sewage	☐
Surface Water - Stormwater	☒	Municipal Water	☐	Aggregates	☐
Ground Water Quantity	☒	Municipal Sewage	☐	Transportation	☐
Surface Water Quality	☒	Stream Channel/Buffer	☒	Agriculture	☐
Ground Water Quality	☒	Waste Disposal	☐		

TRIGGER AND OTHER ISSUES: Infrastructure/development pressure.

PLAN COMPLETION AND IMPLEMENTATION

STUDY STATUS: completed		Implementation Strategy Prepared?	☒	Monitoring Strategy Prepared?	☒
Digital Data Available?	☒	Plan Being Implemented?	☒	Monitoring Underway?	☐

FINANCIAL INFORMATION

TOTAL COST: $100,000.00

DATA INVENTORY/ANALYSIS:
PUBLIC CONSULTATION:
PLAN FORMULATION/EVALUATION:
REPORTS/MEETINGS:
OTHER COMPONENTS?:

Breakdown of Data Inventory/Analysis:
Hydrology/flood/erosion:
Hydrogeology:
Water Quality:
Aquatic Resources:
Stream Morphology:
Terrestrial Resources:
Mapping/Data Management:
Other Costs?

CONTRIBUTORS: City of Kitchener - 100%

STUDY PARTICIPATION

STEERING MEMBERS: 10
TECHNICAL MEMBERS:
PUBLIC ADVISORY MEMBERS:
OTHER?

AGENCIES INVOLVED:

CA	☒	UPPER	☒	HEALTH UNIT	☐	MOEE	☐	MAFRA	☐	MNDM	☐
PUBLIC	☒	LOWER	☒			MTO	☐	MMAH	☐	MNR	☒

OTHER:

MUNICIPALITIES INVOLVED: Regional Municipality of Waterloo, City of Kitchener

#20 EAST MORRISON CREEK SUBWATERSHED STUDY

KEY CONTACT:	Bill Butler	Lead Agency:	Town of Oakville
Phone:	(905) 845-6601ext. 3320	Fax:	(905) 815-2025
Initiation Date:	01-Apr-94	Completion Date:	01-Apr-95
Receiving Stream:	Lake Ontario	Main Land Use:	Developed
CA Involved:	Halton Region	Area Municipality:	Reg. Mun. of Halton
MOEE Region:	Central	MNR District:	Maple

STUDY AREA CHARACTERISTICS

POPULATION: 10000 SIZE (KM2): 8

LANDUSE: % DEVELOPED: 50 % AGRICULTURAL: 50 % OPEN: 0 % FOREST: 0

STUDY ISSUES:

Surface Water - Flooding	☒	Aquatic Life/Fisheries	☒	Private/Communal Water	☐
Surface Water - Low Flow	☒	Wetland/ANSIs	☐	Private/Communal Sewage	☐
Surface Water - Stormwater	☒	Municipal Water	☐	Aggregates	☐
Ground Water Quantity	☒	Municipal Sewage	☐	Transportation	☒
Surface Water Quality	☒	Stream Channel/Buffer	☒	Agriculture	☒
Ground Water Quality	☒	Waste Disposal	☐		

TRIGGER AND OTHER ISSUES: Development pressure.

PLAN COMPLETION AND IMPLEMENTATION

STUDY STATUS:	completed	Implementation Strategy Prepared?	☒	Monitoring Strategy Prepared?	☐
Digital Data Available?	☒	Plan Being Implemented?	☒	Monitoring Underway?	☐

FINANCIAL INFORMATION

TOTAL COST: $100,000.00

DATA INVENTORY/ANALYSIS:
PUBLIC CONSULTATION:
PLAN FORMULATION/EVALUATION:
REPORTS/MEETINGS:
OTHER COMPONENTS?:

Breakdown of Data Inventory/Analysis:
Hydrology/flood/erosion:
Hydrogeology:
Water Quality:
Aquatic Resources:
Stream Morphology:
Terrestrial Resources:
Mapping/Data Management:
Other Costs?

CONTRIBUTORS: Developers: 100%

STUDY PARTICIPATION

STEERING MEMBERS: 6
TECHNICAL MEMBERS:
PUBLIC ADVISORY MEMBERS:
OTHER?

AGENCIES INVOLVED:

CA	☒	UPPER	☒	HEALTH UNIT	☐	MOEE	☒	MAFRA	☐	MNDM	☐
PUBLIC	☒	LOWER	☒			MTO	☐	MMAH	☐	MNR	☒

OTHER:

MUNICIPALITIES INVOLVED: Regional Municipality of Halton, Town of Oakville

#21 ERAMOSA RIVER WATERSHED STUDY

KEY CONTACT:	Joe Farwell	Lead Agency:	Grand River CA
Phone:	(519) 621-2761	Fax:	(519) 621-4844
Initiation Date:	01-Jan-94	Completion Date:	
Receiving Stream:	Speed River	Main Land Use:	Agricultural
CA Involved:	Grand River	Area Municipality:	Reg. Mun. of Halton
MOEE Region:	West Central	MNR District:	Cambridge

STUDY AREA CHARACTERISTICS

POPULATION: 30000 SIZE (KM2): 300

LANDUSE: % DEVELOPED: 5 % AGRICULTURAL: 50 % OPEN: 10 % FOREST: 35

STUDY ISSUES:

Surface Water - Flooding	☐	Aquatic Life/Fisheries	☒	Private/Communal Water	☐
Surface Water - Low Flow	☒	Wetland/ANSIs	☒	Private/Communal Sewage	☐
Surface Water - Stormwater	☐	Municipal Water	☒	Aggregates	☐
Ground Water Quantity	☒	Municipal Sewage	☒	Transportation	☐
Surface Water Quality	☒	Stream Channel/Buffer	☐	Agriculture	☒
Ground Water Quality	☒	Waste Disposal	☐		

TRIGGER AND OTHER ISSUES: Subwatershed/groundwater interactions; landuse practices.

PLAN COMPLETION AND IMPLEMENTATION

STUDY STATUS: ongoing		Implementation Strategy Prepared?	☐	Monitoring Strategy Prepared?	☐
Digital Data Available?	☐	Plan Being Implemented?	☐	Monitoring Underway?	☐

FINANCIAL INFORMATION

TOTAL COST: $495,000.00

DATA INVENTORY/ANALYSIS:	$372,000.00
PUBLIC CONSULTATION:	$50,000.00
PLAN FORMULATION/EVALUATION:	$73,000.00
REPORTS/MEETINGS:	$0.00
OTHER COMPONENTS?:	Bkgrd for Phase I Investigation $48,000, Aquatic a

Breakdown of Data Inventory/Analysis:

Hydrology/flood/erosion:	$27,000.00
Hydrogeology:	$70,000.00
Water Quality:	$0.00
Aquatic Resources:	$27,000.00
Stream Morphology:	$10,000.00
Terrestrial Resources:	$190,000.00
Mapping/Data Management:	$0.00
Other Costs?	

CONTRIBUTORS: MNR: 50%; GRCA general levy: 10%; Special benefit levy: 40%

STUDY PARTICIPATION

# STEERING MEMBERS:	30	# PUBLIC ADVISORY MEMBERS:	6
# TECHNICAL MEMBERS:	7	OTHER?	

AGENCIES INVOLVED:

CA	☒	UPPER	☒	HEALTH UNIT	☐	MOEE	☒	MAFRA	☐	MNDM	☐
PUBLIC	☒	LOWER	☒			MTO	☒	MMAH	☐	MNR	☒

OTHER:

MUNICIPALITIES INVOLVED: Wellington County, Regional Municipality of Halton, City of Guelph & Milton, Town of Halton Hills, Erin, Eramosa & Puslinch Twps.

#22 EXHIBITION CREEK ENVIRONMENTAL MANAGEMENT PLAN

KEY CONTACT:	Les Arishenkoff	Lead Agency:	Town of Markham
Phone:	(905) 477-7000 ext. 302	Fax:	(905) 479-7766
Initiation Date:	01-Oct-93	Completion Date:	01-May-94
Receiving Stream:	Little Rouge River	Main Land Use:	Agricultural
CA Involved:	Metro Toronto and Region	Area Municipality:	Reg. Mun. of York
MOEE Region:	Central	MNR District:	Maple

STUDY AREA CHARACTERISTICS

POPULATION: 10000 SIZE (KM2): 8

LANDUSE: % DEVELOPED: 40 % AGRICULTURAL: 45 % OPEN: 5 % FOREST: 10

STUDY ISSUES:

Surface Water - Flooding	☒	Aquatic Life/Fisheries	☒	Private/Communal Water	☐
Surface Water - Low Flow	☒	Wetland/ANSIs	☐	Private/Communal Sewage	☐
Surface Water - Stormwater	☒	Municipal Water	☒	Aggregates	☐
Ground Water Quantity	☒	Municipal Sewage	☒	Transportation	☒
Surface Water Quality	☒	Stream Channel/Buffer	☒	Agriculture	☒
Ground Water Quality	☒	Waste Disposal	☐		

TRIGGER AND OTHER ISSUES: Development/urban expansion/terrestrial.

PLAN COMPLETION AND IMPLEMENTATION

STUDY STATUS:	completed	Implementation Strategy Prepared?	☒	Monitoring Strategy Prepared?	☐
Digital Data Available?	☒	Plan Being Implemented?	☒	Monitoring Underway?	☐

FINANCIAL INFORMATION

TOTAL COST: $50,000.00

DATA INVENTORY/ANALYSIS:
PUBLIC CONSULTATION:
PLAN FORMULATION/EVALUATION:
REPORTS/MEETINGS:
OTHER COMPONENTS?:

Breakdown of Data Inventory/Analysis:
Hydrology/flood/erosion:
Hydrogeology:
Water Quality:
Aquatic Resources:
Stream Morphology:
Terrestrial Resources:
Mapping/Data Management:
Other Costs?

CONTRIBUTORS: Developer 100%

STUDY PARTICIPATION

STEERING MEMBERS:
TECHNICAL MEMBERS: 10
PUBLIC ADVISORY MEMBERS:
OTHER? Two public meetings.

AGENCIES INVOLVED:

CA	☒	UPPER	☐	HEALTH UNIT	☐	MOEE	☒	MAFRA	☐	MNDM	☐
PUBLIC	☒	LOWER	☒			MTO	☐	MMAH	☐	MNR	☒

OTHER:

MUNICIPALITIES INVOLVED: Town of Markham

#23 FLETCHERS CREEK SUBWATERSHED PLAN

KEY CONTACT:	Carl Brawley	Lead Agency:	City of Brampton
Phone:	(905) 874-2000	Fax:	(905) 874-2119
Initiation Date:	01-Jun-92	Completion Date:	01-Feb-96
Receiving Stream:	Credit River	Main Land Use:	Developed
CA Involved:	Credit Valley	Area Municipality:	Region of Peel
MOEE Region:	Central	MNR District:	Maple

STUDY AREA CHARACTERISTICS

POPULATION: 20000 SIZE (KM2): 45

LANDUSE: % DEVELOPED: 70 % AGRICULTURAL: 15 % OPEN: 10 % FOREST: 5

STUDY ISSUES:

Surface Water - Flooding	☒	Aquatic Life/Fisheries	☒	Private/Communal Water	☐
Surface Water - Low Flow	☐	Wetland/ANSIs	☐	Private/Communal Sewage	☐
Surface Water - Stormwater	☒	Municipal Water	☒	Aggregates	☐
Ground Water Quantity	☐	Municipal Sewage	☐	Transportation	☒
Surface Water Quality	☒	Stream Channel/Buffer	☐	Agriculture	☐
Ground Water Quality	☐	Waste Disposal	☐		

TRIGGER AND OTHER ISSUES: Development pressure.

PLAN COMPLETION AND IMPLEMENTATION

STUDY STATUS:	completed	Implementation Strategy Prepared?	☐	Monitoring Strategy Prepared?	☒
Digital Data Available?	☒	Plan Being Implemented?	☒	Monitoring Underway?	☐

FINANCIAL INFORMATION

TOTAL COST: $180,000.00

DATA INVENTORY/ANALYSIS:	$84,000.00
PUBLIC CONSULTATION:	$2,000.00
PLAN FORMULATION/EVALUATION:	$46,000.00
REPORTS/MEETINGS:	$48,000.00
OTHER COMPONENTS?: Phase I - $62,000	

Breakdown of Data Inventory/Analysis:

Hydrology/flood/erosion:	$30,000.00
Hydrogeology:	$24,000.00
Water Quality:	$4,000.00
Aquatic Resources:	$8,000.00
Stream Morphology:	$15,000.00
Terrestrial Resources:	$3,000.00
Mapping/Data Management:	$0.00
Other Costs?	

CONTRIBUTORS: Development Interests

STUDY PARTICIPATION

# STEERING MEMBERS:	15	# PUBLIC ADVISORY MEMBERS:	3
# TECHNICAL MEMBERS:	8	OTHER?	

AGENCIES INVOLVED:

CA	☒	UPPER	☒	HEALTH UNIT	☒	MOEE	☒	MAFRA	☐	MNDM	☐
PUBLIC	☒	LOWER	☒			MTO	☒	MMAH	☐	MNR	☒

OTHER:

MUNICIPALITIES INVOLVED: City of Brampton, Mississauga, Caledon

#24 FOURTEEN MILE/McCRANEY CREEKS WATERSHED PLAN

KEY CONTACT:	Bill Butler	Lead Agency:	Town of Oakville
Phone:	(905) 845-6601 ext. 3320	Fax:	(905) 815-2025
Initiation Date:	01-Jan-90	Completion Date:	21-Dec-92
Receiving Stream:	Lake Ontario	Main Land Use:	Agricultural
CA Involved:	Halton Region	Area Municipality:	Reg. Mun. of Halton
MOEE Region:	Central	MNR District:	Maple

STUDY AREA CHARACTERISTICS

POPULATION: 50000 SIZE (KM2): 40

LANDUSE: % DEVELOPED: 0 % AGRICULTURAL: 95 % OPEN: 0 % FOREST: 5

STUDY ISSUES:

Surface Water - Flooding	☒	Aquatic Life/Fisheries	☒	Private/Communal Water	☐
Surface Water - Low Flow	☒	Wetland/ANSIs	☐	Private/Communal Sewage	☐
Surface Water - Stormwater	☒	Municipal Water	☐	Aggregates	☐
Ground Water Quantity	☒	Municipal Sewage	☐	Transportation	☒
Surface Water Quality	☒	Stream Channel/Buffer	☒	Agriculture	☒
Ground Water Quality	☒	Waste Disposal	☐		

TRIGGER AND OTHER ISSUES: Development pressure.

PLAN COMPLETION AND IMPLEMENTATION

STUDY STATUS:	completed	Implementation Strategy Prepared?	☒	Monitoring Strategy Prepared?	☐
Digital Data Available?	☐	Plan Being Implemented?	☒	Monitoring Underway?	☐

FINANCIAL INFORMATION

TOTAL COST: $175,000.00

DATA INVENTORY/ANALYSIS:
PUBLIC CONSULTATION:
PLAN FORMULATION/EVALUATION:
REPORTS/MEETINGS:
OTHER COMPONENTS?:

Breakdown of Data Inventory/Analysis:
Hydrology/flood/erosion:
Hydrogeology:
Water Quality:
Aquatic Resources:
Stream Morphology:
Terrestrial Resources:
Mapping/Data Management:
Other Costs?

CONTRIBUTORS: Town of Oakville - 100%

STUDY PARTICIPATION

# STEERING MEMBERS:	6	# PUBLIC ADVISORY MEMBERS:	0
# TECHNICAL MEMBERS:	0	OTHER?	

AGENCIES INVOLVED:

CA	☒	UPPER	☒	HEALTH UNIT	☐	MOEE	☒	MAFRA	☐	MNDM	☐
PUBLIC	☒	LOWER	☒			MTO	☒	MMAH	☐	MNR	☒

OTHER:

MUNICIPALITIES INVOLVED: Regional Municipality of Halton, Town of Oakville

#25 FOURTEEN MILE/TAPLOW/McCRANEY CREEKS SUBWATERSHED PLAN

KEY CONTACT:	Bill Butler	Lead Agency:	Town of Oakville
Phone:	(905) 845-6601 ext. 3320	Fax:	(905) 815-2025
Initiation Date:	01-Jan-93	Completion Date:	01-Dec-95
Receiving Stream:	Lake Ontario	Main Land Use:	Agricultural
CA Involved:	Halton Region	Area Municipality:	Reg. Mun. of Halton
MOEE Region:	Central	MNR District:	Maple

STUDY AREA CHARACTERISTICS

POPULATION: 30000 SIZE (KM2): 25

LANDUSE: % DEVELOPED: 0 % AGRICULTURAL: 90 % OPEN: 0 % FOREST: 10

STUDY ISSUES:

Surface Water - Flooding	☒	Aquatic Life/Fisheries	☒	Private/Communal Water	☐
Surface Water - Low Flow	☒	Wetland/ANSIs	☐	Private/Communal Sewage	☐
Surface Water - Stormwater	☒	Municipal Water	☐	Aggregates	☐
Ground Water Quantity	☐	Municipal Sewage	☐	Transportation	☒
Surface Water Quality	☒	Stream Channel/Buffer	☒	Agriculture	☐
Ground Water Quality	☐	Waste Disposal	☐		

TRIGGER AND OTHER ISSUES: Development pressure.

PLAN COMPLETION AND IMPLEMENTATION

STUDY STATUS:	completed	Implementation Strategy Prepared?	☒	Monitoring Strategy Prepared?	☐
Digital Data Available?	☐	Plan Being Implemented?	☐	Monitoring Underway?	☐

FINANCIAL INFORMATION

TOTAL COST: $80,000.00

DATA INVENTORY/ANALYSIS:
PUBLIC CONSULTATION:
PLAN FORMULATION/EVALUATION:
REPORTS/MEETINGS:
OTHER COMPONENTS?:

Breakdown of Data Inventory/Analysis:
Hydrology/flood/erosion:
Hydrogeology:
Water Quality:
Aquatic Resources:
Stream Morphology:
Terrestrial Resources:
Mapping/Data Management:
Other Costs?

CONTRIBUTORS: Developer - 100%

STUDY PARTICIPATION

STEERING MEMBERS: 6
TECHNICAL MEMBERS:
PUBLIC ADVISORY MEMBERS:
OTHER?

AGENCIES INVOLVED:

CA	☒	UPPER	☒	HEALTH UNIT	☐	MOEE	☒	MAFRA	☐	MNDM	☐
PUBLIC	☐	LOWER	☒			MTO	☐	MMAH	☐	MNR	☒

OTHER:

MUNICIPALITIES INVOLVED: Region of Halton, Town of Oakville

#26 FRENCHMAN'S CREEK WATERSHED MANAGEMENT PLAN

KEY CONTACT:	Kathy Menyes	Lead Agency:	Friends of Fort Erie's Creeks
Phone:	(905) 227-1013 ext. 232	Fax:	(905) 227-2998
Initiation Date:	01-Jan-92	Completion Date:	
Receiving Stream:	Upper Niagara River	Main Land Use:	Agricultural
CA Involved:	Niagara Peninsula	Area Municipality:	Region of Niagara
MOEE Region:	West Central	MNR District:	Cambridge

STUDY AREA CHARACTERISTICS

POPULATION: SIZE (KM2): 16

LANDUSE: % DEVELOPED: 2 % AGRICULTURAL: 75 % OPEN: 0 % FOREST: 23

STUDY ISSUES:

Surface Water - Flooding	☒	Aquatic Life/Fisheries	☒	Private/Communal Water	☐
Surface Water - Low Flow	☒	Wetland/ANSIs	☒	Private/Communal Sewage	☒
Surface Water - Stormwater	☒	Municipal Water	☐	Aggregates	☒
Ground Water Quantity	☒	Municipal Sewage	☐	Transportation	☒
Surface Water Quality	☒	Stream Channel/Buffer	☒	Agriculture	☒
Ground Water Quality	☐	Waste Disposal	☐		

TRIGGER AND OTHER ISSUES: Protection and restoration of creek.

PLAN COMPLETION AND IMPLEMENTATION

STUDY STATUS: ongoing		Implementation Strategy Prepared?	☐	Monitoring Strategy Prepared?	☐
Digital Data Available?	☐	Plan Being Implemented?	☐	Monitoring Underway?	☐

FINANCIAL INFORMATION

TOTAL COST: $444,562.00

DATA INVENTORY/ANALYSIS:	$144,300.00
PUBLIC CONSULTATION:	$24,638.00
PLAN FORMULATION/EVALUATION:	$47,500.00
REPORTS/MEETINGS:	$63,000.00
OTHER COMPONENTS?: $165,124	

Breakdown of Data Inventory/Analysis:

Hydrology/flood/erosion:	$46,100.00
Hydrogeology:	$15,000.00
Water Quality:	$15,700.00
Aquatic Resources:	$50,000.00
Stream Morphology:	$0.00
Terrestrial Resources:	$15,000.00
Mapping/Data Management:	$2,500.00
Other Costs?	

CONTRIBUTORS: Friends of Fort Erie Creeks: $160,000, fundraising & EYC grant; Bon Echo/Mr. Joe Zawadski: $78,400; Regional Mun. of Niagara: $17,600, equipment, services; Great Lakes Clean Up fund: $60,000; MNR: $

STUDY PARTICIPATION

# STEERING MEMBERS:	25	# PUBLIC ADVISORY MEMBERS:	
# TECHNICAL MEMBERS:	6	OTHER?	

AGENCIES INVOLVED:

CA	☒	UPPER	☒	HEALTH UNIT	☐	MOEE	☒	MAFRA	☐	MNDM	☐		
PUBLIC	☒	LOWER	☒			MTO	☐	MMAH	☐	MNR	☒		

OTHER: Friends of Fort Erie's Creeks, New York State Env. Department, Niagara River RAPP Public Advisory Committee

MUNICIPALITIES INVOLVED: Region of Niagara, Town of Fort Erie

#27 GLEN OAK CREEK SUBWATERSHED PLAN

KEY CONTACT:	Bill Butler	Lead Agency:	Town of Oakville
Phone:	(905) 845-6601 ext. 3320	Fax:	(905) 815-2025
Initiation Date:	01-Apr-92	Completion Date:	31-Dec-93
Receiving Stream:	Taplow/McCraney Creek	Main Land Use:	Developed
CA Involved:	Halton Region	Area Municipality:	Region of Halton
MOEE Region:	Central	MNR District:	Maple

STUDY AREA CHARACTERISTICS

POPULATION: 10000 SIZE (KM2): 16

LANDUSE: % DEVELOPED: 45 % AGRICULTURAL: 20 % OPEN: 35 % FOREST: 0

STUDY ISSUES:

Surface Water - Flooding	☒	Aquatic Life/Fisheries	☒	Private/Communal Water	☐
Surface Water - Low Flow	☒	Wetland/ANSIs	☐	Private/Communal Sewage	☐
Surface Water - Stormwater	☒	Municipal Water	☐	Aggregates	☐
Ground Water Quantity	☐	Municipal Sewage	☐	Transportation	☒
Surface Water Quality	☒	Stream Channel/Buffer	☒	Agriculture	☐
Ground Water Quality	☐	Waste Disposal	☐		

TRIGGER AND OTHER ISSUES: Development pressure.

PLAN COMPLETION AND IMPLEMENTATION

STUDY STATUS:	completed	Implementation Strategy Prepared?	☒	Monitoring Strategy Prepared?	☐
Digital Data Available?	☐	Plan Being Implemented?	☒	Monitoring Underway?	☐

FINANCIAL INFORMATION

TOTAL COST: $100,000.00

DATA INVENTORY/ANALYSIS:
PUBLIC CONSULTATION:
PLAN FORMULATION/EVALUATION:
REPORTS/MEETINGS:
OTHER COMPONENTS?:

Breakdown of Data Inventory/Analysis:
Hydrology/flood/erosion:
Hydrogeology:
Water Quality:
Aquatic Resources:
Stream Morphology:
Terrestrial Resources:
Mapping/Data Management:
Other Costs?

CONTRIBUTORS: Developer - 100%

STUDY PARTICIPATION

STEERING MEMBERS: 6
TECHNICAL MEMBERS:
PUBLIC ADVISORY MEMBERS:
OTHER?

AGENCIES INVOLVED:

CA	☒	UPPER	☐	HEALTH UNIT	☐	MOEE	☒	MAFRA	☐	MNDM	☐
PUBLIC	☐	LOWER	☒			MTO	☐	MMAH	☐	MNR	☒

OTHER:

MUNICIPALITIES INVOLVED: Town of Oakville

#28 GRAND RIVER STRATEGY

KEY CONTACT:	Lorrie Minshall	Lead Agency:	Grand River CA
Phone:	(519) 621-2761	Fax:	(519) 621-4844
Initiation Date:	01-Sep-94	Completion Date:	
Receiving Stream:	Grand River to Lake Erie	Main Land Use:	Agricultural
CA Involved:	Grand River	Area Municipality:	City of Cambridge
MOEE Region:	West Central	MNR District:	Cambridge

STUDY AREA CHARACTERISTICS

POPULATION: 670000 SIZE (KM2): 6800

LANDUSE: % DEVELOPED: 3 % AGRICULTURAL: 78 % OPEN: % FOREST: 19

STUDY ISSUES:

Surface Water - Flooding	☒	Aquatic Life/Fisheries	☒	Private/Communal Water	☒
Surface Water - Low Flow	☒	Wetland/ANSIs	☒	Private/Communal Sewage	☒
Surface Water - Stormwater	☒	Municipal Water	☒	Aggregates	☒
Ground Water Quantity	☒	Municipal Sewage	☒	Transportation	☒
Surface Water Quality	☒	Stream Channel/Buffer	☒	Agriculture	☒
Ground Water Quality	☒	Waste Disposal	☐		

TRIGGER AND OTHER ISSUES: Designation as Canadian Heritage River, capacity to support growth, impacts on land/water resources.

PLAN COMPLETION AND IMPLEMENTATION

STUDY STATUS:	ongoing	Implementation Strategy Prepared?	☐	Monitoring Strategy Prepared?	☐
Digital Data Available?	☐	Plan Being Implemented?	☐	Monitoring Underway?	☐

FINANCIAL INFORMATION

TOTAL COST:

DATA INVENTORY/ANALYSIS:
PUBLIC CONSULTATION:
PLAN FORMULATION/EVALUATION:
REPORTS/MEETINGS:
OTHER COMPONENTS?:

Breakdown of Data Inventory/Analysis:
Hydrology/flood/erosion:
Hydrogeology:
Water Quality:
Aquatic Resources:
Stream Morphology:
Terrestrial Resources:
Mapping/Data Management:
Other Costs?

CONTRIBUTORS: GRCA, Mun, Prov, Fed, community, educational institutions, landowners.

STUDY PARTICIPATION

# STEERING MEMBERS:	46	# PUBLIC ADVISORY MEMBERS:	0
# TECHNICAL MEMBERS:	139	OTHER?	

AGENCIES INVOLVED:

CA	☒	UPPER	☒	HEALTH UNIT	☐	MOEE	☒	MAFRA	☒	MNDM	☐
PUBLIC	☒	LOWER	☒			MTO	☐	MMAH	☒	MNR	☒

OTHER: University of Waterloo, University of Guelph, Coalitions, Six Nations, Urban Development Institute, Land Trusts, Public Utilities, Environment Canada, Ministry of Trade & Tourism, Ministry of Citizenship, Ministry of Culture & Recreation...

MUNICIPALITIES INVOLVED: 55 Municipalities, 11 Regions and Counties.

#29 HANLON CREEK WATERSHED PLAN

KEY CONTACT:	James Etienne	Lead Agency:	City of Guelph
Phone:	(519) 837-5604	Fax:	(519) 837-5635
Initiation Date:	01-Jun-90	Completion Date:	01-Apr-94
Receiving Stream:	Hanlon Creek	Main Land Use:	Agricultural
CA Involved:	Grand River	Area Municipality:	Wellington County
MOEE Region:	West Central	MNR District:	Cambridge

STUDY AREA CHARACTERISTICS

POPULATION: 6000 SIZE (KM2): 17

LANDUSE: % DEVELOPED: 30 % AGRICULTURAL: 55 % OPEN: 15 % FOREST: 0

STUDY ISSUES:

Surface Water - Flooding	☒	Aquatic Life/Fisheries	☒	Private/Communal Water	☐
Surface Water - Low Flow	☒	Wetland/ANSIs	☒	Private/Communal Sewage	☐
Surface Water - Stormwater	☒	Municipal Water	☐	Aggregates	☐
Ground Water Quantity	☒	Municipal Sewage	☐	Transportation	☐
Surface Water Quality	☒	Stream Channel/Buffer	☒	Agriculture	☐
Ground Water Quality	☒	Waste Disposal	☐		

TRIGGER AND OTHER ISSUES: Development pressure.

PLAN COMPLETION AND IMPLEMENTATION

STUDY STATUS:	completed	Implementation Strategy Prepared?	☒	Monitoring Strategy Prepared?	☒
Digital Data Available?	☒	Plan Being Implemented?	☒	Monitoring Underway?	☐

FINANCIAL INFORMATION

TOTAL COST: $896,000.00

DATA INVENTORY/ANALYSIS:	$617,000.00
PUBLIC CONSULTATION:	$36,000.00
PLAN FORMULATION/EVALUATION:	$120,000.00
REPORTS/MEETINGS:	$123,000.00
OTHER COMPONENTS?:	

Breakdown of Data Inventory/Analysis:

Hydrology/flood/erosion:	$99,000.00
Hydrogeology:	$316,000.00
Water Quality:	$57,000.00
Aquatic Resources:	$65,000.00
Stream Morphology:	$0.00
Terrestrial Resources:	$80,000.00
Mapping/Data Management:	$0.00
Other Costs?	

CONTRIBUTORS: CA: 10%, Municipal: 90%

STUDY PARTICIPATION

# STEERING MEMBERS:	12	# PUBLIC ADVISORY MEMBERS:	
# TECHNICAL MEMBERS:		OTHER?	

AGENCIES INVOLVED:

CA	☒	UPPER	☒	HEALTH UNIT	☐	MOEE	☒	MAFRA	☐	MNDM	☐
PUBLIC	☒	LOWER	☒			MTO	☐	MMAH	☒	MNR	☒

OTHER: University of Guelph, Interest groups.

MUNICIPALITIES INVOLVED: Wellington County, City of Guelph, Twp. of Puslinch

#30 HARMONY CREEK WATERSHED PLAN

KEY CONTACT:	Chris Conti	Lead Agency:	Central Lake Ont. CA
Phone:	(905) 579-0411	Fax:	(905) 579-0994
Initiation Date:	01-Jan-94	Completion Date:	
Receiving Stream:	Lake Ontario	Main Land Use:	Developed
CA Involved:	Central Lake Ontario	Area Municipality:	Reg. Mun. of Durham
MOEE Region:	Central	MNR District:	Maple

STUDY AREA CHARACTERISTICS

POPULATION: SIZE (KM2):

LANDUSE: % DEVELOPED: 40 % AGRICULTURAL: 30 % OPEN: 20 % FOREST: 10

STUDY ISSUES:

Surface Water - Flooding	☒	Aquatic Life/Fisheries	☒	Private/Communal Water	☒
Surface Water - Low Flow	☒	Wetland/ANSIs	☒	Private/Communal Sewage	☒
Surface Water - Stormwater	☒	Municipal Water	☐	Aggregates	☐
Ground Water Quantity	☒	Municipal Sewage	☐	Transportation	☒
Surface Water Quality	☒	Stream Channel/Buffer	☒	Agriculture	☒
Ground Water Quality	☒	Waste Disposal	☒		

TRIGGER AND OTHER ISSUES: Development pressure.

PLAN COMPLETION AND IMPLEMENTATION

STUDY STATUS: ongoing		Implementation Strategy Prepared?	☐	Monitoring Strategy Prepared?	☐
Digital Data Available?	☐	Plan Being Implemented?	☐	Monitoring Underway?	☐

FINANCIAL INFORMATION

TOTAL COST: $150,000.00

DATA INVENTORY/ANALYSIS:
PUBLIC CONSULTATION:
PLAN FORMULATION/EVALUATION:
REPORTS/MEETINGS:
OTHER COMPONENTS?:

Breakdown of Data Inventory/Analysis:
Hydrology/flood/erosion:
Hydrogeology:
Water Quality:
Aquatic Resources:
Stream Morphology:
Terrestrial Resources:
Mapping/Data Management:
Other Costs?

CONTRIBUTORS:

STUDY PARTICIPATION

# STEERING MEMBERS:	10	# PUBLIC ADVISORY MEMBERS:	0
# TECHNICAL MEMBERS:	0	OTHER?	

AGENCIES INVOLVED:

CA	☒	UPPER	☒	HEALTH UNIT	☐	MOEE	☒	MAFRA	☐	MNDM	☐
PUBLIC	☐	LOWER	☒			MTO	☐	MMAH	☐	MNR	☒

OTHER:

MUNICIPALITIES INVOLVED: Regional Municipality of Durham, City of Oshawa

#31 HARPER CREEK WATERSHED PLANNING STUDY

KEY CONTACT:	John Merriam	Lead Agency:	Otonabee Region CA
Phone:	(705) 745-5791	Fax:	(705) 745-7488
Initiation Date:	01-Sep-95	Completion Date:	
Receiving Stream:	Otonabee River	Main Land Use:	Developed
CA Involved:	Otonabee Region	Area Municipality:	City of Peterborough
MOEE Region:	Eastern	MNR District:	Tweed

STUDY AREA CHARACTERISTICS

POPULATION: 10000 SIZE (KM2): 3

LANDUSE: % DEVELOPED: 20 % AGRICULTURAL: 5 % OPEN: 60 % FOREST: 15

STUDY ISSUES:

Surface Water - Flooding	☒	Aquatic Life/Fisheries	☒	Private/Communal Water	☐
Surface Water - Low Flow	☒	Wetland/ANSIs	☒	Private/Communal Sewage	☐
Surface Water - Stormwater	☒	Municipal Water	☐	Aggregates	☐
Ground Water Quantity	☒	Municipal Sewage	☐	Transportation	☐
Surface Water Quality	☒	Stream Channel/Buffer	☒	Agriculture	☐
Ground Water Quality	☐	Waste Disposal	☐		

TRIGGER AND OTHER ISSUES: Development pressure.

PLAN COMPLETION AND IMPLEMENTATION

STUDY STATUS: ongoing		Implementation Strategy Prepared?	☐	Monitoring Strategy Prepared?	☐
Digital Data Available?	☐	Plan Being Implemented?	☐	Monitoring Underway?	☐

FINANCIAL INFORMATION

TOTAL COST: $63,099.00

DATA INVENTORY/ANALYSIS:	$40,000.00
PUBLIC CONSULTATION:	$5,000.00
PLAN FORMULATION/EVALUATION:	$10,000.00
REPORTS/MEETINGS:	$8,000.00
OTHER COMPONENTS?:	

Breakdown of Data Inventory/Analysis:

Hydrology/flood/erosion:	$18,000.00
Hydrogeology:	$13,000.00
Water Quality:	$3,000.00
Aquatic Resources:	$2,000.00
Stream Morphology:	$0.00
Terrestrial Resources:	$0.00
Mapping/Data Management:	$4,000.00
Other Costs?	

CONTRIBUTORS: City of Peterborough - 100%

STUDY PARTICIPATION

# STEERING MEMBERS:	8	# PUBLIC ADVISORY MEMBERS:	2
# TECHNICAL MEMBERS:	8	OTHER?	

AGENCIES INVOLVED:

CA	☒	UPPER	☐	HEALTH UNIT	☐	MOEE	☐	MAFRA	☐	MNDM	☐
PUBLIC	☒	LOWER	☒			MTO	☐	MMAH	☐	MNR	☒

OTHER:

MUNICIPALITIES INVOLVED: City of Peterborough.

#32 HUMBER WATERSHED STRATEGY

KEY CONTACT:	Madelyn Webb	Lead Agency:	Metro Toronto and Region
Phone:	(416) 661-6600 ext. 331	Fax:	(416) 661-6898
Initiation Date:	01-Jan-95	Completion Date:	
Receiving Stream:	Lake Ontario	Main Land Use:	Agricultural
CA Involved:	Metro Toronto and Region	Area Municipality:	Reg. Mun. of Metro Toronto
MOEE Region:	Central	MNR District:	Southern

STUDY AREA CHARACTERISTICS

POPULATION: 500000 SIZE (KM2): 908

LANDUSE: % DEVELOPED: 35 % AGRICULTURAL: 46 % OPEN: 4 % FOREST: 15

STUDY ISSUES:

Surface Water - Flooding	☒	Aquatic Life/Fisheries	☒	Private/Communal Water	☐
Surface Water - Low Flow	☒	Wetland/ANSIs	☒	Private/Communal Sewage	☐
Surface Water - Stormwater	☒	Municipal Water	☐	Aggregates	☒
Ground Water Quantity	☒	Municipal Sewage	☐	Transportation	☐
Surface Water Quality	☒	Stream Channel/Buffer	☒	Agriculture	☒
Ground Water Quality	☒	Waste Disposal	☐		

TRIGGER AND OTHER ISSUES: Canadian Heritage River designation; GTA development pressure; ESA.

PLAN COMPLETION AND IMPLEMENTATION

STUDY STATUS: ongoing		Implementation Strategy Prepared?	☐	Monitoring Strategy Prepared?	☐
Digital Data Available?	☒	Plan Being Implemented?	☒	Monitoring Underway?	☐

FINANCIAL INFORMATION

TOTAL COST: $600,000.00

DATA INVENTORY/ANALYSIS:	$475,000.00
PUBLIC CONSULTATION:	$30,000.00
PLAN FORMULATION/EVALUATION:	$20,000.00
REPORTS/MEETINGS:	$40,000.00
OTHER COMPONENTS?:	$35,000

Breakdown of Data Inventory/Analysis:

Hydrology/flood/erosion:	$50,000.00
Hydrogeology:	$30,000.00
Water Quality:	$50,000.00
Aquatic Resources:	$30,000.00
Stream Morphology:	$30,000.00
Terrestrial Resources:	$30,000.00
Mapping/Data Management:	$50,000.00
Other Costs?	Cultural heritage $100.0K, recreation $55.0K, Economic $50.0K.

CONTRIBUTORS: M.T.R.C.A., Municipalities, Consumers Gas, Great Lakes Clean Up Fund, Economic Cultural Heritage.

STUDY PARTICIPATION

# STEERING MEMBERS:	44	# PUBLIC ADVISORY MEMBERS:	19
# TECHNICAL MEMBERS:	9	OTHER?	

AGENCIES INVOLVED:

CA	☒	UPPER	☒	HEALTH UNIT	☐	MOEE	☒	MAFRA	☒	MNDM	☐
PUBLIC	☒	LOWER	☒			MTO	☐	MMAH	☒	MNR	☒

OTHER: Metro Toronto RAP, Environment Canada, MCRR, NEC, Save the Oak Ridges Moraine, OSCIA, UDI, Waterfront Regeneration Trust, Action to Restore a Clean Humber, Black Creek Project, Humber Heritage Committee, McMichael Canadian Art Collection.

MUNICIPALITIES INVOLVED: Metropolitan Toronto, York, North York, Etobicoke, York, Vaughan, King, Richmond Hill, Peel, Caledon, Brampton, Mississauga, Mono Twps, Twp. of Adjala-Tosoronto.

#33 JOCK RIVER WATERSHED MANAGEMENT STUDY

KEY CONTACT:	Lynn Preston	Lead Agency:	Rideau Valley CA
Phone:	(613) 692-3571	Fax:	(613) 692-0831
Initiation Date:	20-Apr-94	Completion Date:	
Receiving Stream:	Rideau River	Main Land Use:	Agricultural
CA Involved:	Rideau Valley	Area Municipality:	Reg. Mun. of Ottawa-Carleton
MOEE Region:	Eastern	MNR District:	Kemptville

STUDY AREA CHARACTERISTICS

POPULATION: 30000 SIZE (KM2): 559

LANDUSE: % DEVELOPED: 10 % AGRICULTURAL: 40 % OPEN: 18 % FOREST: 32

STUDY ISSUES:

Surface Water - Flooding	☒	Aquatic Life/Fisheries	☒	Private/Communal Water	☐
Surface Water - Low Flow	☐	Wetland/ANSIs	☐	Private/Communal Sewage	☐
Surface Water - Stormwater	☐	Municipal Water	☐	Aggregates	☐
Ground Water Quantity	☐	Municipal Sewage	☐	Transportation	☐
Surface Water Quality	☒	Stream Channel/Buffer	☐	Agriculture	☐
Ground Water Quality	☐	Waste Disposal	☐		

TRIGGER AND OTHER ISSUES: Anticipated development pressure.

PLAN COMPLETION AND IMPLEMENTATION

STUDY STATUS: ongoing		Implementation Strategy Prepared?	☐	Monitoring Strategy Prepared?	☐
Digital Data Available?	☒	Plan Being Implemented?	☐	Monitoring Underway?	☐

FINANCIAL INFORMATION

TOTAL COST: $292,000.00

DATA INVENTORY/ANALYSIS:	$72,000.00
PUBLIC CONSULTATION:	$7,000.00
PLAN FORMULATION/EVALUATION:	$30,000.00
REPORTS/MEETINGS:	$28,000.00
OTHER COMPONENTS?: Staffing - $155,000	

Breakdown of Data Inventory/Analysis:

Hydrology/flood/erosion:	$20,000.00
Hydrogeology:	$9,000.00
Water Quality:	$10,000.00
Aquatic Resources:	$12,500.00
Stream Morphology:	$0.00
Terrestrial Resources:	$12,500.00
Mapping/Data Management:	$8,000.00
Other Costs?	

CONTRIBUTORS: MNR Transfer 50%, RVCA 50%

STUDY PARTICIPATION

# STEERING MEMBERS:	7	# PUBLIC ADVISORY MEMBERS:	
# TECHNICAL MEMBERS:	15	OTHER?	Public mailing list (150)

AGENCIES INVOLVED:

CA	☒	UPPER	☒	HEALTH UNIT	☐	MOEE	☒	MAFRA	☒	MNDM	☐
PUBLIC	☒	LOWER	☒			MTO	☒	MMAH	☒	MNR	☒

OTHER:

MUNICIPALITIES INVOLVED: Lanark County, Beckwith Twp., Montague Twp., Reg. Mun. of Ottawa-Carleton, Goulbourn, Rideau, Kanata, Nepean Twps.

#34 JOSHUA'S CREEK WATERSHED PLAN

KEY CONTACT:	Bill Butler	Lead Agency:	Town of Oakville
Phone:	(905) 845-6601 ext. 3320	Fax:	(905) 815-2025
Initiation Date:	01-Jan-91	Completion Date:	01-May-92
Receiving Stream:	Lake Ontario	Main Land Use:	Developed
CA Involved:	Halton Region	Area Municipality:	Reg. Mun. of Halton
MOEE Region:	Central	MNR District:	Cambridge

STUDY AREA CHARACTERISTICS

POPULATION: 25000 SIZE (KM2): 22

LANDUSE: % DEVELOPED: 50 % AGRICULTURAL: 20 % OPEN: 30 % FOREST: 0

STUDY ISSUES:

Surface Water - Flooding	☒	Aquatic Life/Fisheries	☒	Private/Communal Water	☐
Surface Water - Low Flow	☒	Wetland/ANSIs	☐	Private/Communal Sewage	☐
Surface Water - Stormwater	☒	Municipal Water	☐	Aggregates	☐
Ground Water Quantity	☐	Municipal Sewage	☐	Transportation	☒
Surface Water Quality	☒	Stream Channel/Buffer	☒	Agriculture	☐
Ground Water Quality	☐	Waste Disposal	☐		

TRIGGER AND OTHER ISSUES: Loss of natural features and development pressure.

PLAN COMPLETION AND IMPLEMENTATION

STUDY STATUS: completed		Implementation Strategy Prepared?	☒	Monitoring Strategy Prepared?	☒
Digital Data Available?	☒	Plan Being Implemented?	☒	Monitoring Underway?	☐

FINANCIAL INFORMATION

TOTAL COST: $135,000.00

DATA INVENTORY/ANALYSIS:	$85,000.00
PUBLIC CONSULTATION:	$15,000.00
PLAN FORMULATION/EVALUATION:	$15,000.00
REPORTS/MEETINGS:	$20,000.00
OTHER COMPONENTS?:	

Breakdown of Data Inventory/Analysis:

Hydrology/flood/erosion:	$40,000.00
Hydrogeology:	$5,000.00
Water Quality:	$10,000.00
Aquatic Resources:	$5,000.00
Stream Morphology:	$0.00
Terrestrial Resources:	$20,000.00
Mapping/Data Management:	$5,000.00
Other Costs?	

CONTRIBUTORS: Private sector 100%

STUDY PARTICIPATION

# STEERING MEMBERS:	5	# PUBLIC ADVISORY MEMBERS:	
# TECHNICAL MEMBERS:		OTHER?	

AGENCIES INVOLVED:

CA	☒	UPPER	☒	HEALTH UNIT	☐	MOEE	☒	MAFRA	☐	MNDM	☐
PUBLIC	☐	LOWER	☒			MTO	☒	MMAH	☐	MNR	☒

OTHER:

MUNICIPALITIES INVOLVED: Regional Municipality of Halton, Town of Oakville, City of Mississauga

#35 KEMPTVILLE CREEK WATERSHED PLAN

KEY CONTACT:	Lynn Preston	Lead Agency:	Rideau Valley CA
Phone:	(613) 692-3571	Fax:	(613) 692-0831
Initiation Date:	01-Jan-93	Completion Date:	
Receiving Stream:	Rideau River	Main Land Use:	Agricultural
CA Involved:	Rideau Valley	Area Municipality:	Town of Kemptville
MOEE Region:	Eastern	MNR District:	Kemptville

STUDY AREA CHARACTERISTICS

POPULATION: 17000 SIZE (KM2): 458

LANDUSE: % DEVELOPED: 1 % AGRICULTURAL: 50 % OPEN: 7 % FOREST: 42

STUDY ISSUES:

Surface Water - Flooding	☒	Aquatic Life/Fisheries	☒	Private/Communal Water	☐
Surface Water - Low Flow	☒	Wetland/ANSIs	☐	Private/Communal Sewage	☐
Surface Water - Stormwater	☐	Municipal Water	☐	Aggregates	☐
Ground Water Quantity	☐	Municipal Sewage	☐	Transportation	☐
Surface Water Quality	☒	Stream Channel/Buffer	☐	Agriculture	☐
Ground Water Quality	☒	Waste Disposal	☐		

TRIGGER AND OTHER ISSUES: Resource management and planning for future development

PLAN COMPLETION AND IMPLEMENTATION

STUDY STATUS:	ongoing	Implementation Strategy Prepared?	☐	Monitoring Strategy Prepared?	☐
Digital Data Available?	☒	Plan Being Implemented?	☐	Monitoring Underway?	☐

FINANCIAL INFORMATION

TOTAL COST: $301,000.00

DATA INVENTORY/ANALYSIS:	$60,000.00
PUBLIC CONSULTATION:	$10,000.00
PLAN FORMULATION/EVALUATION:	$20,000.00
REPORTS/MEETINGS:	$24,000.00
OTHER COMPONENTS?:	Staffing - $187,000

Breakdown of Data Inventory/Analysis:

Hydrology/flood/erosion:	$17,500.00
Hydrogeology:	$13,000.00
Water Quality:	$9,500.00
Aquatic Resources:	$6,000.00
Stream Morphology:	$0.00
Terrestrial Resources:	$6,000.00
Mapping/Data Management:	$8,000.00
Other Costs?	

CONTRIBUTORS: RVCA/Member Municipality: 100%

STUDY PARTICIPATION

# STEERING MEMBERS:	8	# PUBLIC ADVISORY MEMBERS:	
# TECHNICAL MEMBERS:	17	OTHER?	Public mailing list (67)

AGENCIES INVOLVED:

CA	☒	UPPER	☒	HEALTH UNIT	☒	MOEE	☒	MAFRA	☒	MNDM	☐
PUBLIC	☐	LOWER	☒			MTO	☐	MMAH	☒	MNR	☒

OTHER:

MUNICIPALITIES INVOLVED: Town of Kemptville, Twps. of Elizabethtown, Oxford-on-Rideau, Wolford, Augusta, Kitley, Rear of Yonge & Escot, South Gower.

#36 KETTLE CREEK TRIBUTARY BLOCK 3 SUBWATERSHED PLAN

KEY CONTACT:	John Dewancker	Lead Agency:	City of St. Thomas
Phone:	(519)631-1680	Fax:	(905) 633-9017
Initiation Date:	01-Nov-92	Completion Date:	01-Sep-93
Receiving Stream:	Kettle Creek	Main Land Use:	Agricultural
CA Involved:	Kettle Creek	Area Municipality:	City of St. Thomas/Yarmouth Twp
MOEE Region:	SouthWestern	MNR District:	Alymer

STUDY AREA CHARACTERISTICS

POPULATION: 100 SIZE (KM2): 7

LANDUSE: % DEVELOPED: 5 % AGRICULTURAL: 79 % OPEN: 0 % FOREST: 16

STUDY ISSUES:

Surface Water - Flooding	☒	Aquatic Life/Fisheries	☒	Private/Communal Water	☐
Surface Water - Low Flow	☒	Wetland/ANSIs	☐	Private/Communal Sewage	☐
Surface Water - Stormwater	☒	Municipal Water	☐	Aggregates	☐
Ground Water Quantity	☒	Municipal Sewage	☐	Transportation	☐
Surface Water Quality	☒	Stream Channel/Buffer	☒	Agriculture	☐
Ground Water Quality	☐	Waste Disposal	☐		

TRIGGER AND OTHER ISSUES: Development pressure.

PLAN COMPLETION AND IMPLEMENTATION

STUDY STATUS:	completed	Implementation Strategy Prepared?	☒	Monitoring Strategy Prepared?	☐
Digital Data Available?	☐	Plan Being Implemented?	☒	Monitoring Underway?	☐

FINANCIAL INFORMATION

TOTAL COST: $50,000.00

DATA INVENTORY/ANALYSIS:	$30,000.00
PUBLIC CONSULTATION:	$0.00
PLAN FORMULATION/EVALUATION:	$10,000.00
REPORTS/MEETINGS:	$10,000.00
OTHER COMPONENTS?:	

Breakdown of Data Inventory/Analysis:

Hydrology/flood/erosion:	$22,000.00
Hydrogeology:	$0.00
Water Quality:	$2,000.00
Aquatic Resources:	$1,000.00
Stream Morphology:	$0.00
Terrestrial Resources:	$5,000.00
Mapping/Data Management:	$0.00
Other Costs?	

CONTRIBUTORS: City of St. Thomas - 100%

STUDY PARTICIPATION

# STEERING MEMBERS:	6	# PUBLIC ADVISORY MEMBERS:	0
# TECHNICAL MEMBERS:	6	OTHER?	

AGENCIES INVOLVED:

CA	☒	UPPER	☒	HEALTH UNIT	☐	MOEE	☒	MAFRA	☐	MNDM	☐
PUBLIC	☐	LOWER	☒			MTO	☐	MMAH	☐	MNR	☒

OTHER: Central Elgin Planning Office

MUNICIPALITIES INVOLVED: City of St. Thomas, Township of Yarmouth

#37 KETTLE CREEK/UPPER DODDS CREEK SUBWATERSHED PLAN

KEY CONTACT:	Ron Standish	Lead Agency:	City of London
Phone:	(519) 661-4978	Fax:	(519) 661-5931
Initiation Date:	01-Jun-93	Completion Date:	01-May-95
Receiving Stream:	Lake Erie	Main Land Use:	Agricultural
CA Involved:	Kettle Creek	Area Municipality:	City of London
MOEE Region:	SouthWestern	MNR District:	Alymer

STUDY AREA CHARACTERISTICS

POPULATION: SIZE (KM2): 154

LANDUSE: % DEVELOPED: 10 % AGRICULTURAL: 80 % OPEN: 0 % FOREST: 10

STUDY ISSUES:

Surface Water - Flooding	☐	Aquatic Life/Fisheries	☒	Private/Communal Water	☐
Surface Water - Low Flow	☐	Wetland/ANSIs	☒	Private/Communal Sewage	☐
Surface Water - Stormwater	☒	Municipal Water	☐	Aggregates	☐
Ground Water Quantity	☐	Municipal Sewage	☐	Transportation	☐
Surface Water Quality	☒	Stream Channel/Buffer	☒	Agriculture	☒
Ground Water Quality	☐	Waste Disposal	☐		

TRIGGER AND OTHER ISSUES:

PLAN COMPLETION AND IMPLEMENTATION

STUDY STATUS:	completed	Implementation Strategy Prepared?	☐	Monitoring Strategy Prepared?	☐
Digital Data Available?	☒	Plan Being Implemented?	☒	Monitoring Underway?	☐

FINANCIAL INFORMATION

TOTAL COST: $197,500.00

DATA INVENTORY/ANALYSIS:	$82,500.00
PUBLIC CONSULTATION:	$18,000.00
PLAN FORMULATION/EVALUATION:	$77,000.00
REPORTS/MEETINGS:	$20,000.00
OTHER COMPONENTS?:	

Breakdown of Data Inventory/Analysis:

Hydrology/flood/erosion:	$22,000.00
Hydrogeology:	$11,250.00
Water Quality:	$21,000.00
Aquatic Resources:	$0.00
Stream Morphology:	$8,250.00
Terrestrial Resources:	$0.00
Mapping/Data Management:	$20,000.00

Other Costs? Aquatic and Terrestrial Resources work done as a common study for the City of London Sw Studies.

CONTRIBUTORS: City of London - 100%

STUDY PARTICIPATION

# STEERING MEMBERS:	0	# PUBLIC ADVISORY MEMBERS:	0
# TECHNICAL MEMBERS:	20	OTHER?	

AGENCIES INVOLVED:

CA	☒	UPPER	☒	HEALTH UNIT	☐	MOEE	☒	MAFRA	☒	MNDM	☐
PUBLIC	☒	LOWER	☒			MTO	☐	MMAH	☐	MNR	☒

OTHER: London Develpment Institute, City of London - Environmental & Ecological Planning Advisory Committee, Agricultural Advisory Committee.

MUNICIPALITIES INVOLVED: City of London, Twps. of Delaware, North Dumfries.

#38 LAKE NOSBONSING WATERSHED MANAGEMENT PLAN

KEY CONTACT:	Bill Beckett	Lead Agency:	North Bay-Mattawa CA
Phone:	(705) 474-5420	Fax:	(705) 474-9793
Initiation Date:	01-Jan-91	Completion Date:	15-Jan-93
Receiving Stream:	Lake Nosbonsing	Main Land Use:	Open
CA Involved:	North Bay-Mattawa	Area Municipality:	Nipissing District
MOEE Region:	Northern	MNR District:	North Bay

STUDY AREA CHARACTERISTICS

POPULATION: 5965 SIZE (KM2): 146

LANDUSE: % DEVELOPED: 0 % AGRICULTURAL: 10 % OPEN: 90 % FOREST: 0

STUDY ISSUES:

Surface Water - Flooding	☐	Aquatic Life/Fisheries	☒	Private/Communal Water	☐
Surface Water - Low Flow	☐	Wetland/ANSIs	☒	Private/Communal Sewage	☐
Surface Water - Stormwater	☐	Municipal Water	☐	Aggregates	☒
Ground Water Quantity	☐	Municipal Sewage	☐	Transportation	☐
Surface Water Quality	☒	Stream Channel/Buffer	☐	Agriculture	☐
Ground Water Quality	☐	Waste Disposal	☐		

TRIGGER AND OTHER ISSUES: Resource management.

PLAN COMPLETION AND IMPLEMENTATION

STUDY STATUS:	completed	Implementation Strategy Prepared?	☒	Monitoring Strategy Prepared?	☒
Digital Data Available?	☐	Plan Being Implemented?	☒	Monitoring Underway?	☒

FINANCIAL INFORMATION

TOTAL COST: $110,000.00

DATA INVENTORY/ANALYSIS:
PUBLIC CONSULTATION:
PLAN FORMULATION/EVALUATION:
REPORTS/MEETINGS:
OTHER COMPONENTS?:

Breakdown of Data Inventory/Analysis:
Hydrology/flood/erosion:
Hydrogeology:
Water Quality:
Aquatic Resources:
Stream Morphology:
Terrestrial Resources:
Mapping/Data Management:
Other Costs?

CONTRIBUTORS: MNR 85%), East Ferrid Twp: 15%, Bonfield Twp.: 15%

STUDY PARTICIPATION

# STEERING MEMBERS:	13	# PUBLIC ADVISORY MEMBERS:	10
# TECHNICAL MEMBERS:	15	OTHER?	

AGENCIES INVOLVED:

CA	☒	UPPER	☐	HEALTH UNIT	☒	MOEE	☒	MAFRA	☐	MNDM	☐
PUBLIC	☒	LOWER	☒			MTO	☐	MMAH	☐	MNR	☒

OTHER:

MUNICIPALITIES INVOLVED: Bonfield, East Ferris, Chisholm, Boutler Twps.

#39 LAKEHEAD REGION WATERSHED STRATEGY

KEY CONTACT:	Mervi Henttonen/Steve Suke	Lead Agency:	Lakehead Region CA
Phone:	(807) 344-5857	Fax:	(807) 345-9156
Initiation Date:	01-Jan-91	Completion Date:	01-Jan-93
Receiving Stream:	Lake Superior	Main Land Use:	Forest
CA Involved:	Lakehead Region	Area Municipality:	City of Thunder Bay
MOEE Region:	Northern	MNR District:	Thunder Bay

STUDY AREA CHARACTERISTICS

POPULATION: 125000 SIZE (KM2): 12700

LANDUSE: % DEVELOPED: 10 % AGRICULTURAL: 15 % OPEN: 25 % FOREST: 50

STUDY ISSUES:

Surface Water - Flooding	☒	Aquatic Life/Fisheries	☒	Private/Communal Water	☐
Surface Water - Low Flow	☒	Wetland/ANSIs	☒	Private/Communal Sewage	☐
Surface Water - Stormwater	☒	Municipal Water	☐	Aggregates	☐
Ground Water Quantity	☐	Municipal Sewage	☐	Transportation	☐
Surface Water Quality	☐	Stream Channel/Buffer	☒	Agriculture	☐
Ground Water Quality	☒	Waste Disposal	☐		

TRIGGER AND OTHER ISSUES:

PLAN COMPLETION AND IMPLEMENTATION

STUDY STATUS:	completed	Implementation Strategy Prepared?	☒	Monitoring Strategy Prepared?	☒
Digital Data Available?	☐	Plan Being Implemented?	☒	Monitoring Underway?	☒

FINANCIAL INFORMATION

TOTAL COST: $103,000.00

DATA INVENTORY/ANALYSIS:	$35,000.00
PUBLIC CONSULTATION:	$13,000.00
PLAN FORMULATION/EVALUATION:	$27,000.00
REPORTS/MEETINGS:	$28,000.00
OTHER COMPONENTS?:	

Breakdown of Data Inventory/Analysis:
Hydrology/flood/erosion:
Hydrogeology:
Water Quality:
Aquatic Resources:
Stream Morphology:
Terrestrial Resources:
Mapping/Data Management:
Other Costs?

CONTRIBUTORS: Provincial - 60%; Municipalities - 40%

STUDY PARTICIPATION

STEERING MEMBERS: 15
TECHNICAL MEMBERS: 3
PUBLIC ADVISORY MEMBERS: 4
OTHER? Two workshops with approx. 50 invitations; one public mtg.

AGENCIES INVOLVED:

CA	☒	UPPER	☐	HEALTH UNIT	☒	MOEE	☒	MAFRA	☒	MNDM	☒
PUBLIC	☒	LOWER	☒			MTO	☐	MMAH	☒	MNR	☒

OTHER: Local green groups/clubs/business.

MUNICIPALITIES INVOLVED: City of Thunder Bay, Twp. of Paipoonge, Twp of Neebing, O'Conner, Conmee, Shuniah, Dorian, Oliver, Gillies and unorganized Territories.

#40 LAUREL CREEK SUBWATERSHED #309/313

KEY CONTACT:	Brian Trushinski	Lead Agency:	City of Waterloo
Phone:	(519) 747-8708	Fax:	(519) 747-8792
Initiation Date:	01-Jun-92	Completion Date:	01-Apr-96
Receiving Stream:	Clair Creek	Main Land Use:	Agricultural
CA Involved:	Grand River	Area Municipality:	City of Waterloo
MOEE Region:	West Central	MNR District:	Cambridge

STUDY AREA CHARACTERISTICS

POPULATION: 50 SIZE (KM2): 6

LANDUSE: % DEVELOPED: 10 % AGRICULTURAL: 50 % OPEN: 15 % FOREST: 25

STUDY ISSUES:

Surface Water - Flooding	☒	Aquatic Life/Fisheries	☒	Private/Communal Water	☐
Surface Water - Low Flow	☒	Wetland/ANSIs	☒	Private/Communal Sewage	☐
Surface Water - Stormwater	☒	Municipal Water	☐	Aggregates	☐
Ground Water Quantity	☒	Municipal Sewage	☐	Transportation	☐
Surface Water Quality	☒	Stream Channel/Buffer	☐	Agriculture	☐
Ground Water Quality	☒	Waste Disposal	☐		

TRIGGER AND OTHER ISSUES: Linkages and corridors, terrestrial woodlands, development pressures.

PLAN COMPLETION AND IMPLEMENTATION

STUDY STATUS:	completed	Implementation Strategy Prepared?	☒	Monitoring Strategy Prepared?	☒
Digital Data Available?	☐	Plan Being Implemented?	☒	Monitoring Underway?	☒

FINANCIAL INFORMATION

TOTAL COST: $175,000.00

DATA INVENTORY/ANALYSIS:	$61,250.00
PUBLIC CONSULTATION:	$17,500.00
PLAN FORMULATION/EVALUATION:	$70,000.00
REPORTS/MEETINGS:	$26,250.00
OTHER COMPONENTS?:	

Breakdown of Data Inventory/Analysis:

Hydrology/flood/erosion:	$12,250.00
Hydrogeology:	$15,313.00
Water Quality:	$6,125.00
Aquatic Resources:	$6,125.00
Stream Morphology:	$6,125.00
Terrestrial Resources:	$9,187.00
Mapping/Data Management:	$6,125.00
Other Costs?	

CONTRIBUTORS: Landowners: 100%, own money

STUDY PARTICIPATION

STEERING MEMBERS: 7
TECHNICAL MEMBERS:
PUBLIC ADVISORY MEMBERS:
OTHER?

AGENCIES INVOLVED:

CA	☐	UPPER	☒	HEALTH UNIT	☐	MOEE	☐	MAFRA	☐	MNDM	☐
PUBLIC	☐	LOWER	☒			MTO	☐	MMAH	☐	MNR	☐

OTHER:

MUNICIPALITIES INVOLVED: City of Waterloo, Regional Municipality of Waterloo

#41 LAUREL CREEK SUBWATERSHED #311 STUDY

KEY CONTACT:	Brian Trushinski	Lead Agency:	City of Waterloo
Phone:	(519) 747-8708	Fax:	(519) 747-8792
Initiation Date:	01-Jan-94	Completion Date:	31-Jan-95
Receiving Stream:	Laurel Creek	Main Land Use:	Agricultural
CA Involved:	Grand River	Area Municipality:	City of Waterloo
MOEE Region:	West Central	MNR District:	Cambridge

STUDY AREA CHARACTERISTICS

POPULATION: 50 SIZE (KM2): 4

LANDUSE: % DEVELOPED: 5 % AGRICULTURAL: 60 % OPEN: 15 % FOREST: 20

STUDY ISSUES:

Surface Water - Flooding	☒	Aquatic Life/Fisheries	☒	Private/Communal Water	☐
Surface Water - Low Flow	☒	Wetland/ANSIs	☒	Private/Communal Sewage	☐
Surface Water - Stormwater	☒	Municipal Water	☐	Aggregates	☐
Ground Water Quantity	☒	Municipal Sewage	☐	Transportation	☐
Surface Water Quality	☒	Stream Channel/Buffer	☒	Agriculture	☐
Ground Water Quality	☒	Waste Disposal	☐		

TRIGGER AND OTHER ISSUES: Development, terrestrial resources, linkages and corridors.

PLAN COMPLETION AND IMPLEMENTATION

STUDY STATUS:	completed	Implementation Strategy Prepared?	☒	Monitoring Strategy Prepared?	☒
Digital Data Available?	☐	Plan Being Implemented?	☒	Monitoring Underway?	☒

FINANCIAL INFORMATION

TOTAL COST: $160,000.00

DATA INVENTORY/ANALYSIS:	$80,000.00
PUBLIC CONSULTATION:	$16,000.00
PLAN FORMULATION/EVALUATION:	$56,000.00
REPORTS/MEETINGS:	$8,000.00
OTHER COMPONENTS?:	

Breakdown of Data Inventory/Analysis:

Hydrology/flood/erosion:	$18,400.00
Hydrogeology:	$16,000.00
Water Quality:	$8,000.00
Aquatic Resources:	$8,000.00
Stream Morphology:	$8,000.00
Terrestrial Resources:	$16,000.00
Mapping/Data Management:	$5,600.00
Other Costs?	

CONTRIBUTORS: Landowners: 100%, own money

STUDY PARTICIPATION

STEERING MEMBERS: 8 # PUBLIC ADVISORY MEMBERS:

TECHNICAL MEMBERS: OTHER?

AGENCIES INVOLVED:

CA	☒	UPPER	☒	HEALTH UNIT	☐	MOEE	☐	MAFRA	☐	MNDM	☐
PUBLIC	☐	LOWER	☒			MTO	☐	MMAH	☐	MNR	☐

OTHER:

MUNICIPALITIES INVOLVED: City of Waterloo, Regional Municipality of Waterloo

#42 LAUREL CREEK SUBWATERSHED #314 STUDY

KEY CONTACT:	Brian Trushinski	Lead Agency:	City of Waterloo
Phone:	(519) 747-8708	Fax:	(519) 747-8792
Initiation Date:	01-Jan-94	Completion Date:	15-Sep-96
Receiving Stream:	Clair Creek	Main Land Use:	Agricultural
CA Involved:	Grand River	Area Municipality:	City of Waterloo
MOEE Region:	West Central	MNR District:	Cambridge

STUDY AREA CHARACTERISTICS

POPULATION: 210 SIZE (KM2): 4

LANDUSE: % DEVELOPED: 8 % AGRICULTURAL: 62 % OPEN: 15 % FOREST: 15

STUDY ISSUES:

Surface Water - Flooding	☒	Aquatic Life/Fisheries	☒	Private/Communal Water	☐
Surface Water - Low Flow	☒	Wetland/ANSIs	☒	Private/Communal Sewage	☐
Surface Water - Stormwater	☒	Municipal Water	☐	Aggregates	☐
Ground Water Quantity	☒	Municipal Sewage	☐	Transportation	☐
Surface Water Quality	☒	Stream Channel/Buffer	☐	Agriculture	☐
Ground Water Quality	☒	Waste Disposal	☐		

TRIGGER AND OTHER ISSUES: Development pressures, terrestrial resources, linkages and corridors.

PLAN COMPLETION AND IMPLEMENTATION

STUDY STATUS:	completed	Implementation Strategy Prepared?	☐	Monitoring Strategy Prepared?	☒
Digital Data Available?	☐	Plan Being Implemented?	☒	Monitoring Underway?	☒

FINANCIAL INFORMATION

TOTAL COST: $150,000.00

DATA INVENTORY/ANALYSIS:	$37,500.00
PUBLIC CONSULTATION:	$15,000.00
PLAN FORMULATION/EVALUATION:	$75,000.00
REPORTS/MEETINGS:	$22,500.00
OTHER COMPONENTS?:	

Breakdown of Data Inventory/Analysis:

Hydrology/flood/erosion:	$13,125.00
Hydrogeology:	$5,625.00
Water Quality:	$1,875.00
Aquatic Resources:	$3,750.00
Stream Morphology:	$1,875.00
Terrestrial Resources:	$7,500.00
Mapping/Data Management:	$3,750.00
Other Costs?	

CONTRIBUTORS: Landowners: 100%, own money

STUDY PARTICIPATION

STEERING MEMBERS: 7 # PUBLIC ADVISORY MEMBERS:

TECHNICAL MEMBERS: OTHER?

AGENCIES INVOLVED:

CA	☒	UPPER	☒	HEALTH UNIT	☐	MOEE	☐	MAFRA	☐	MNDM	☐
PUBLIC	☐	LOWER	☒			MTO	☐	MMAH	☐	MNR	☒

OTHER:

MUNICIPALITIES INVOLVED: City of Waterloo, Regional Municipality of Waterloo

#43 LAUREL CREEK WATERSHED STUDY

KEY CONTACT:	Lorrie Minshall	Lead Agency:	Grand River CA
Phone:	(519) 621-2761	Fax:	(519) 621-4844
Initiation Date:	01-Jan-91	Completion Date:	01-Apr-93
Receiving Stream:	Grand River	Main Land Use:	Developed
CA Involved:	Grand River	Area Municipality:	Reg. Mun. of Waterloo
MOEE Region:	West Central	MNR District:	Cambridge

STUDY AREA CHARACTERISTICS

POPULATION: 250000 SIZE (KM2): 74

LANDUSE: % DEVELOPED: 40 % AGRICULTURAL: 25 % OPEN: 15 % FOREST: 20

STUDY ISSUES:

Surface Water - Flooding	☒	Aquatic Life/Fisheries	☐	Private/Communal Water	☐
Surface Water - Low Flow	☐	Wetland/ANSIs	☒	Private/Communal Sewage	☐
Surface Water - Stormwater	☒	Municipal Water	☐	Aggregates	☐
Ground Water Quantity	☐	Municipal Sewage	☐	Transportation	☐
Surface Water Quality	☒	Stream Channel/Buffer	☒	Agriculture	☐
Ground Water Quality	☒	Waste Disposal	☐		

TRIGGER AND OTHER ISSUES:

PLAN COMPLETION AND IMPLEMENTATION

STUDY STATUS: completed		Implementation Strategy Prepared?	☒	Monitoring Strategy Prepared?	☒
Digital Data Available?	☒	Plan Being Implemented?	☒	Monitoring Underway?	☒

FINANCIAL INFORMATION

TOTAL COST: $840,000.00

DATA INVENTORY/ANALYSIS:	$460,000.00
PUBLIC CONSULTATION:	$80,000.00
PLAN FORMULATION/EVALUATION:	$80,000.00
REPORTS/MEETINGS:	$215,000.00
OTHER COMPONENTS?: $5,000	

Breakdown of Data Inventory/Analysis:

Hydrology/flood/erosion:	$55,000.00
Hydrogeology:	$110,000.00
Water Quality:	$120,000.00
Aquatic Resources:	$50,000.00
Stream Morphology:	$0.00
Terrestrial Resources:	$80,000.00
Mapping/Data Management:	$45,000.00
Other Costs?	

CONTRIBUTORS: MNR 55%, Reg Muns of Waterloo 35%, Grand River Muns 10%

STUDY PARTICIPATION

# STEERING MEMBERS:	31	# PUBLIC ADVISORY MEMBERS:	20
# TECHNICAL MEMBERS:	15	OTHER?	

AGENCIES INVOLVED:

CA	☒	UPPER	☒	HEALTH UNIT	☐	MOEE	☒	MAFRA	☐	MNDM	☐
PUBLIC	☒	LOWER	☒			MTO	☐	MMAH	☐	MNR	☒

OTHER:

MUNICIPALITIES INVOLVED: City of Waterloo, Kitchner, Regional Municipality of Waterloo, Twps of Wilmot, Wellesley, & Woolwich

#44 LOVERS & HEWITTS CREEKS MASTER WATERSHED PLAN

KEY CONTACT:	Tom Hogenbirk	Lead Agency:	Lake Simcoe Region CA
Phone:	(905) 895-1281	Fax:	(905) 853-5881
Initiation Date:	01-Jun-93	Completion Date:	01-Oct-95
Receiving Stream:	Kempenfelt Bay to L. Simcoe	Main Land Use:	Agricultural
CA Involved:	Lake Simcoe Region	Area Municipality:	Simcoe County
MOEE Region:	SouthWestern	MNR District:	Midhurst

STUDY AREA CHARACTERISTICS

POPULATION: 7500 SIZE (KM2): 80

LANDUSE: % DEVELOPED: 44 % AGRICULTURAL: 66 % OPEN: 0 % FOREST: 0

STUDY ISSUES:

Surface Water - Flooding	☐	Aquatic Life/Fisheries	☒	Private/Communal Water	☐
Surface Water - Low Flow	☐	Wetland/ANSIs	☐	Private/Communal Sewage	☐
Surface Water - Stormwater	☒	Municipal Water	☐	Aggregates	☐
Ground Water Quantity	☐	Municipal Sewage	☐	Transportation	☐
Surface Water Quality	☒	Stream Channel/Buffer	☐	Agriculture	☐
Ground Water Quality	☐	Waste Disposal	☐		

TRIGGER AND OTHER ISSUES: Development pressure.

PLAN COMPLETION AND IMPLEMENTATION

STUDY STATUS:	completed	Implementation Strategy Prepared?	☐	Monitoring Strategy Prepared?	☐
Digital Data Available?	☒	Plan Being Implemented?	☐	Monitoring Underway?	☐

FINANCIAL INFORMATION

TOTAL COST: $260,000.00

DATA INVENTORY/ANALYSIS:	$96,000.00
PUBLIC CONSULTATION:	$22,000.00
PLAN FORMULATION/EVALUATION:	$58,000.00
REPORTS/MEETINGS:	$45,000.00
OTHER COMPONENTS?:	$39,000 - water quality, mapping, aquatic resource

Breakdown of Data Inventory/Analysis:

Hydrology/flood/erosion:	$38,000.00
Hydrogeology:	$18,000.00
Water Quality:	$0.00
Aquatic Resources:	$0.00
Stream Morphology:	$0.00
Terrestrial Resources:	$40,000.00
Mapping/Data Management:	$0.00
Other Costs?	

CONTRIBUTORS: Town of Innisfil - 16%; City of Barrie - 34%

STUDY PARTICIPATION

STEERING MEMBERS: 14 # PUBLIC ADVISORY MEMBERS:

TECHNICAL MEMBERS: OTHER?

AGENCIES INVOLVED:

CA	☒	UPPER	☒	HEALTH UNIT	☐	MOEE	☒	MAFRA	☒	MNDM	☐
PUBLIC	☒	LOWER	☒			MTO	☐	MMAH	☒	MNR	☒

OTHER:

MUNICIPALITIES INVOLVED: Simcoe County, City of Barrie, Town of Innisfil, Village of Stroud

#45 LOWER MORRISON/WEDGEWOOD CREEKS SUBWATERSHED PLAN

KEY CONTACT:	Dave Bloomer	Lead Agency:	Town of Oakville
Phone:	(905) 845-6601 ext. 3303	Fax:	(905) 338-4159
Initiation Date:	01-Jan-90	Completion Date:	15-Jun-94
Receiving Stream:	Lake Ontario	Main Land Use:	Developed
CA Involved:	Halton Region	Area Municipality:	Reg. Mun. of Halton
MOEE Region:	Central	MNR District:	Maple

STUDY AREA CHARACTERISTICS

POPULATION: 20000 SIZE (KM2): 1

LANDUSE: % DEVELOPED: 100 % AGRICULTURAL: 0 % OPEN: 0 % FOREST: 0

STUDY ISSUES:

Surface Water - Flooding	☒	Aquatic Life/Fisheries	☒	Private/Communal Water	☐
Surface Water - Low Flow	☒	Wetland/ANSIs	☐	Private/Communal Sewage	☐
Surface Water - Stormwater	☒	Municipal Water	☐	Aggregates	☐
Ground Water Quantity	☐	Municipal Sewage	☐	Transportation	☐
Surface Water Quality	☒	Stream Channel/Buffer	☒	Agriculture	☐
Ground Water Quality	☐	Waste Disposal	☐		

TRIGGER AND OTHER ISSUES: Development with erosion, flooding issues.

PLAN COMPLETION AND IMPLEMENTATION

STUDY STATUS:	completed	Implementation Strategy Prepared?	☒	Monitoring Strategy Prepared?	☐
Digital Data Available?	☐	Plan Being Implemented?	☒	Monitoring Underway?	☐

FINANCIAL INFORMATION

TOTAL COST: $77,000.00

DATA INVENTORY/ANALYSIS:
PUBLIC CONSULTATION:
PLAN FORMULATION/EVALUATION:
REPORTS/MEETINGS:
OTHER COMPONENTS?:

Breakdown of Data Inventory/Analysis:
Hydrology/flood/erosion:
Hydrogeology:
Water Quality:
Aquatic Resources:
Stream Morphology:
Terrestrial Resources:
Mapping/Data Management:
Other Costs?

CONTRIBUTORS: Town of Oakville - $30,000; Developer - $47,000

STUDY PARTICIPATION

STEERING MEMBERS: 8
TECHNICAL MEMBERS:
PUBLIC ADVISORY MEMBERS: 2
OTHER?

AGENCIES INVOLVED:

CA	☒	UPPER	☐	HEALTH UNIT	☐	MOEE	☐	MAFRA	☐	MNDM	☐
PUBLIC	☒	LOWER	☒			MTO	☐	MMAH	☐	MNR	☒

OTHER:

MUNICIPALITIES INVOLVED: Town of Oakville.

#46 LYNDE CREEK WATERSHED MANAGEMENT STUDY

KEY CONTACT:	Chris Conti	Lead Agency:	Central Lake Ont. CA
Phone:	(905) 579-0411	Fax:	(905) 579-0994
Initiation Date:	01-Jan-94	Completion Date:	
Receiving Stream:	Lake Ontario	Main Land Use:	Agricultural
CA Involved:	Central Lake Ontario	Area Municipality:	Reg. Mun. of Durham
MOEE Region:	Central	MNR District:	Maple

STUDY AREA CHARACTERISTICS

POPULATION: SIZE (KM2): 136

LANDUSE: % DEVELOPED: 15 % AGRICULTURAL: 60 % OPEN: 10 % FOREST: 15

STUDY ISSUES:

Surface Water - Flooding	☒	Aquatic Life/Fisheries	☒	Private/Communal Water	☒
Surface Water - Low Flow	☒	Wetland/ANSIs	☒	Private/Communal Sewage	☐
Surface Water - Stormwater	☒	Municipal Water	☐	Aggregates	☐
Ground Water Quantity	☒	Municipal Sewage	☐	Transportation	☐
Surface Water Quality	☒	Stream Channel/Buffer	☒	Agriculture	☐
Ground Water Quality	☒	Waste Disposal	☐		

TRIGGER AND OTHER ISSUES:

PLAN COMPLETION AND IMPLEMENTATION

STUDY STATUS: ongoing		Implementation Strategy Prepared?	☐	Monitoring Strategy Prepared?	☐
Digital Data Available?	☐	Plan Being Implemented?	☐	Monitoring Underway?	☐

FINANCIAL INFORMATION

TOTAL COST: $150,000.00

DATA INVENTORY/ANALYSIS:
PUBLIC CONSULTATION:
PLAN FORMULATION/EVALUATION:
REPORTS/MEETINGS:
OTHER COMPONENTS?:

Breakdown of Data Inventory/Analysis:
Hydrology/flood/erosion:
Hydrogeology:
Water Quality:
Aquatic Resources:
Stream Morphology:
Terrestrial Resources:
Mapping/Data Management:
Other Costs?

CONTRIBUTORS:

STUDY PARTICIPATION

# STEERING MEMBERS:	8	# PUBLIC ADVISORY MEMBERS:	0
# TECHNICAL MEMBERS:	0	OTHER?	

AGENCIES INVOLVED:

CA	☒	UPPER	☒	HEALTH UNIT	☐	MOEE	☒	MAFRA	☐	MNDM	☐
PUBLIC	☐	LOWER	☒			MTO	☐	MMAH	☐	MNR	☒

OTHER:

MUNICIPALITIES INVOLVED: Regional Municipality of Durham, Town of Whitby

#47 LYNHURST AREA SUBWATERSHED STUDY

KEY CONTACT:	Jim McComb	Lead Agency:	Central Elgan Planning Office
Phone:	(519) 631-1270	Fax:	(519) 631-5026
Initiation Date:	01-Sep-94	Completion Date:	01-Apr-96
Receiving Stream:	Kettle Creek	Main Land Use:	Agricultural
CA Involved:	Kettle Creek	Area Municipality:	Elgin County
MOEE Region:	SouthWestern	MNR District:	Aylmer

STUDY AREA CHARACTERISTICS

POPULATION: 1000 SIZE (KM2): 18

LANDUSE: % DEVELOPED: 10 % AGRICULTURAL: 50 % OPEN: 40 % FOREST: 0

STUDY ISSUES:

Surface Water - Flooding	☒	Aquatic Life/Fisheries	☒	Private/Communal Water	☐
Surface Water - Low Flow	☒	Wetland/ANSIs	☐	Private/Communal Sewage	☐
Surface Water - Stormwater	☒	Municipal Water	☐	Aggregates	☐
Ground Water Quantity	☒	Municipal Sewage	☐	Transportation	☐
Surface Water Quality	☒	Stream Channel/Buffer	☒	Agriculture	☒
Ground Water Quality	☒	Waste Disposal	☐		

TRIGGER AND OTHER ISSUES: Development pressure (landuse plans and approvals).

PLAN COMPLETION AND IMPLEMENTATION

STUDY STATUS:	completed	Implementation Strategy Prepared?	☐	Monitoring Strategy Prepared?	☐
Digital Data Available?	☒	Plan Being Implemented?	☐	Monitoring Underway?	☐

FINANCIAL INFORMATION

TOTAL COST: $45,000.00

DATA INVENTORY/ANALYSIS:
PUBLIC CONSULTATION:
PLAN FORMULATION/EVALUATION:
REPORTS/MEETINGS:
OTHER COMPONENTS?:

Breakdown of Data Inventory/Analysis:
Hydrology/flood/erosion:
Hydrogeology:
Water Quality:
Aquatic Resources:
Stream Morphology:
Terrestrial Resources:
Mapping/Data Management:
Other Costs?

CONTRIBUTORS: Town of Yarmouth 50%, Southwold 50%

STUDY PARTICIPATION

STEERING MEMBERS: 8
TECHNICAL MEMBERS:
PUBLIC ADVISORY MEMBERS:
OTHER?

AGENCIES INVOLVED:

CA	☒	UPPER	☒	HEALTH UNIT	☐	MOEE	☒	MAFRA	☒	MNDM	☐
PUBLIC	☐	LOWER	☒			MTO	☐	MMAH	☐	MNR	☒

OTHER: Central Elgan Planning Office

MUNICIPALITIES INVOLVED: Twp Southwold, Yarmouth, St. Thomas

#48 MADAWASKA RIVER WATERSHED STUDY

KEY CONTACT:	Mike Bohm	Lead Agency:	MNR/Ontario Hydro
Phone:	(613) 732-7661	Fax:	(613) 732-2972
Initiation Date:	14-Feb-95	Completion Date:	
Receiving Stream:	Ottawa River	Main Land Use:	Forest
CA Involved:	None	Area Municipality:	Renfrew County
MOEE Region:	Eastern	MNR District:	Pembroke

STUDY AREA CHARACTERISTICS

POPULATION: 50000 SIZE (KM2): 8500

LANDUSE: % DEVELOPED: 5 % AGRICULTURAL: 20 % OPEN: 5 % FOREST: 70

STUDY ISSUES:

Surface Water - Flooding	☒	Aquatic Life/Fisheries	☒	Private/Communal Water	☐
Surface Water - Low Flow	☒	Wetland/ANSIs	☒	Private/Communal Sewage	☐
Surface Water - Stormwater	☒	Municipal Water	☐	Aggregates	☐
Ground Water Quantity	☐	Municipal Sewage	☐	Transportation	☐
Surface Water Quality	☐	Stream Channel/Buffer	☐	Agriculture	☐
Ground Water Quality	☐	Waste Disposal	☐		

TRIGGER AND OTHER ISSUES: Hydro Development - Resource Protection

PLAN COMPLETION AND IMPLEMENTATION

STUDY STATUS:	ongoing	Implementation Strategy Prepared?	☐	Monitoring Strategy Prepared?	☐
Digital Data Available?	☐	Plan Being Implemented?	☒	Monitoring Underway?	☐

FINANCIAL INFORMATION

TOTAL COST: $200,000.00

DATA INVENTORY/ANALYSIS:	$50,000.00	Breakdown of Data Inventory/Analysis:	
PUBLIC CONSULTATION:	$50,000.00	Hydrology/flood/erosion:	$0.00
PLAN FORMULATION/EVALUATION:	$50,000.00	Hydrogeology:	$0.00
REPORTS/MEETINGS:	$50,000.00	Water Quality:	$0.00
OTHER COMPONENTS?:	Cost inlcudes staff time and administration	Aquatic Resources:	$0.00
		Stream Morphology:	$0.00
		Terrestrial Resources:	$0.00
		Mapping/Data Management:	$0.00
		Other Costs?	

CONTRIBUTORS: MNR, Ontario Hydro

STUDY PARTICIPATION

# STEERING MEMBERS:	5	# PUBLIC ADVISORY MEMBERS:	0
# TECHNICAL MEMBERS:	7	OTHER?	

AGENCIES INVOLVED:

CA	☐	UPPER	☒	HEALTH UNIT	☐	MOEE	☒	MAFRA	☐	MNDM	☐
PUBLIC	☒	LOWER	☒			MTO	☐	MMAH	☐	MNR	☒

OTHER: Dept. of Fisheries & Oceans, Ontario Hydro

MUNICIPALITIES INVOLVED: Renfrew County and local Municipalities

#49 MAITLAND VALLEY ECOSYSTEM HEALTH PROJECT

KEY CONTACT:	Rick Steele	Lead Agency:	Maitland Valley CA
Phone:	(519) 335-3557	Fax:	(519) 335-3516
Initiation Date:	01-Jan-92	Completion Date:	15-Sep-96
Receiving Stream:	Maitland & Nine Mile	Main Land Use:	Agricultural
CA Involved:	Maitland Valley	Area Municipality:	Huron County/Perth County
MOEE Region:	West Central	MNR District:	Cambridge

STUDY AREA CHARACTERISTICS

POPULATION: 58000 SIZE (KM2): 3261

LANDUSE: % DEVELOPED: 2 % AGRICULTURAL: 75 % OPEN: 3 % FOREST: 18

STUDY ISSUES:

Surface Water - Flooding	☐	Aquatic Life/Fisheries	☒	Private/Communal Water	☐
Surface Water - Low Flow	☒	Wetland/ANSIs	☐	Private/Communal Sewage	☐
Surface Water - Stormwater	☐	Municipal Water	☐	Aggregates	☐
Ground Water Quantity	☐	Municipal Sewage	☐	Transportation	☐
Surface Water Quality	☒	Stream Channel/Buffer	☒	Agriculture	☒
Ground Water Quality	☐	Waste Disposal	☐		

TRIGGER AND OTHER ISSUES: Resource protection.

PLAN COMPLETION AND IMPLEMENTATION

STUDY STATUS:	completed	Implementation Strategy Prepared?	☐	Monitoring Strategy Prepared?	☒
Digital Data Available?	☒	Plan Being Implemented?	☐	Monitoring Underway?	☐

FINANCIAL INFORMATION

TOTAL COST: $181,250.00

DATA INVENTORY/ANALYSIS:	$143,100.00
PUBLIC CONSULTATION:	$0.00
PLAN FORMULATION/EVALUATION:	$0.00
REPORTS/MEETINGS:	$0.00
OTHER COMPONENTS?:	

Breakdown of Data Inventory/Analysis:

Hydrology/flood/erosion:	$30,000.00
Hydrogeology:	$0.00
Water Quality:	$0.00
Aquatic Resources:	$38,100.00
Stream Morphology:	$0.00
Terrestrial Resources:	$55,000.00
Mapping/Data Management:	$20,000.00
Other Costs?	

CONTRIBUTORS: Fed.15% , MNR 30%, CA 30% , EYC 25%

STUDY PARTICIPATION

STEERING MEMBERS: 4
TECHNICAL MEMBERS:
PUBLIC ADVISORY MEMBERS:
OTHER?

AGENCIES INVOLVED:

CA	☒	UPPER	☒	HEALTH UNIT	☐	MOEE	☒	MAFRA	☐	MNDM	☐
PUBLIC	☐	LOWER	☒			MTO	☐	MMAH	☐	MNR	☒

OTHER:

MUNICIPALITIES INVOLVED: Huron County, and Perth County.

50 MEADE CREEK WATERSHED PLAN

KEY CONTACT:	John Merriam	Lead Agency:	Otonabee Region CA
Phone:	(705) 745-5791	Fax:	(705) 745-7488
Initiation Date:	12-Nov-93	Completion Date:	
Receiving Stream:	Trent Canal	Main Land Use:	Agricultural
CA Involved:	Otonabee Region	Area Municipality:	City of Peterborough
MOEE Region:	Eastern	MNR District:	Tweed

STUDY AREA CHARACTERISTICS

POPULATION: SIZE (KM2): 80

LANDUSE: % DEVELOPED: 20 % AGRICULTURAL: 60 % OPEN: 5 % FOREST: 15

STUDY ISSUES:

Surface Water - Flooding	☒	Aquatic Life/Fisheries	☒	Private/Communal Water	☐
Surface Water - Low Flow	☒	Wetland/ANSIs	☒	Private/Communal Sewage	☐
Surface Water - Stormwater	☒	Municipal Water	☐	Aggregates	☐
Ground Water Quantity	☐	Municipal Sewage	☐	Transportation	☐
Surface Water Quality	☐	Stream Channel/Buffer	☒	Agriculture	☐
Ground Water Quality	☐	Waste Disposal	☐		

TRIGGER AND OTHER ISSUES: Development pressure.

PLAN COMPLETION AND IMPLEMENTATION

STUDY STATUS: ongoing		Implementation Strategy Prepared?	☐	Monitoring Strategy Prepared?	☐
Digital Data Available?	☐	Plan Being Implemented?	☐	Monitoring Underway?	☐

FINANCIAL INFORMATION

TOTAL COST: $108,000.00

DATA INVENTORY/ANALYSIS:	$90,000.00
PUBLIC CONSULTATION:	$0.00
PLAN FORMULATION/EVALUATION:	$10,000.00
REPORTS/MEETINGS:	$8,000.00
OTHER COMPONENTS?:	

Breakdown of Data Inventory/Analysis:

Hydrology/flood/erosion:	$40,000.00
Hydrogeology:	$15,000.00
Water Quality:	$0.00
Aquatic Resources:	$10,000.00
Stream Morphology:	$10,000.00
Terrestrial Resources:	$10,000.00
Mapping/Data Management:	$5,000.00
Other Costs?	

CONTRIBUTORS: Twp. of Otonabee - 5%; City of Peterborough - 95%

STUDY PARTICIPATION

# STEERING MEMBERS:	8	# PUBLIC ADVISORY MEMBERS:	
# TECHNICAL MEMBERS:	8	OTHER?	

AGENCIES INVOLVED:

CA	☒	UPPER	☐	HEALTH UNIT	☐	MOEE	☐	MAFRA	☐	MNDM	☐
PUBLIC	☐	LOWER	☒			MTO	☐	MMAH	☐	MNR	☒

OTHER:

MUNICIPALITIES INVOLVED: City of Peterborough, Otonabee Twp.

#51 MEDWAY/STANTON/MUD CREEK SUBWATERSHED PLAN

KEY CONTACT:	Ron Standish	Lead Agency:	City of London
Phone:	(519) 661-4978	Fax:	(519) 661-5931
Initiation Date:	01-May-93	Completion Date:	01-May-95
Receiving Stream:	Thames River	Main Land Use:	Agricultural
CA Involved:	Upper Thames River	Area Municipality:	City of London
MOEE Region:	SouthWestern	MNR District:	Alymer

STUDY AREA CHARACTERISTICS

POPULATION: 0 SIZE (KM2): 234

LANDUSE: % DEVELOPED: 5 % AGRICULTURAL: 85 % OPEN: 0 % FOREST: 10

STUDY ISSUES:

Surface Water - Flooding	☒	Aquatic Life/Fisheries	☒	Private/Communal Water	☐
Surface Water - Low Flow	☐	Wetland/ANSIs	☐	Private/Communal Sewage	☐
Surface Water - Stormwater	☒	Municipal Water	☐	Aggregates	☐
Ground Water Quantity	☐	Municipal Sewage	☐	Transportation	☐
Surface Water Quality	☒	Stream Channel/Buffer	☒	Agriculture	☒
Ground Water Quality	☒	Waste Disposal	☐		

TRIGGER AND OTHER ISSUES:

PLAN COMPLETION AND IMPLEMENTATION

STUDY STATUS:	completed	Implementation Strategy Prepared?	☒	Monitoring Strategy Prepared?	☐
Digital Data Available?	☒	Plan Being Implemented?	☒	Monitoring Underway?	☐

FINANCIAL INFORMATION

TOTAL COST: $275,000.00

DATA INVENTORY/ANALYSIS:	$126,000.00
PUBLIC CONSULTATION:	$19,000.00
PLAN FORMULATION/EVALUATION:	$111,000.00
REPORTS/MEETINGS:	$19,000.00
OTHER COMPONENTS?:	

Breakdown of Data Inventory/Analysis:

Hydrology/flood/erosion:	$27,000.00
Hydrogeology:	$20,000.00
Water Quality:	$18,000.00
Aquatic Resources:	$12,000.00
Stream Morphology:	$17,000.00
Terrestrial Resources:	$17,000.00
Mapping/Data Management:	$15,000.00

Other Costs? Most of the terrestrial & aquatic biology work was done as a common study for the City of London Sw Studies.

CONTRIBUTORS: City of London - 80%; Twp of London - 20%

STUDY PARTICIPATION

# STEERING MEMBERS:	0	# PUBLIC ADVISORY MEMBERS:	0
# TECHNICAL MEMBERS:	19	OTHER?	

AGENCIES INVOLVED:

CA	☒	UPPER	☒	HEALTH UNIT	☐	MOEE	☒	MAFRA	☒	MNDM	☐
PUBLIC	☐	LOWER	☒			MTO	☐	MMAH	☐	MNR	☒

OTHER: London Development Institute, City of London - Environmental & Ecological Advisory Committee, Agricultural Advisory Committee

MUNICIPALITIES INVOLVED: City of London, London Twp.

#52 MILL CREEK SUBWATERSHED STUDY

KEY CONTACT:	Dr. Tony Smith	Lead Agency:	Grand River CA
Phone:	(519) 621-2761	Fax:	(519) 621-4844
Initiation Date:	01-Nov-93	Completion Date:	20-Jun-96
Receiving Stream:	Grand River	Main Land Use:	Agricultural
CA Involved:	Grand River	Area Municipality:	Reg. Mun. of Waterloo
MOEE Region:	West Central	MNR District:	Cambridge

STUDY AREA CHARACTERISTICS

POPULATION: 25000 SIZE (KM2): 104

LANDUSE: % DEVELOPED: 10 % AGRICULTURAL: 40 % OPEN: 30 % FOREST: 20

STUDY ISSUES:

Surface Water - Flooding	☒	Aquatic Life/Fisheries	☒	Private/Communal Water	☒
Surface Water - Low Flow	☒	Wetland/ANSIs	☒	Private/Communal Sewage	☒
Surface Water - Stormwater	☒	Municipal Water	☒	Aggregates	☒
Ground Water Quantity	☒	Municipal Sewage	☒	Transportation	☒
Surface Water Quality	☒	Stream Channel/Buffer	☒	Agriculture	☒
Ground Water Quality	☒	Waste Disposal	☐		

TRIGGER AND OTHER ISSUES: Future development, sensitive ecosystems and water taking ponds.

PLAN COMPLETION AND IMPLEMENTATION

STUDY STATUS:	completed	Implementation Strategy Prepared?	☐	Monitoring Strategy Prepared?	☐
Digital Data Available?	☒	Plan Being Implemented?	☐	Monitoring Underway?	☐

FINANCIAL INFORMATION

TOTAL COST: $415,000.00

DATA INVENTORY/ANALYSIS:	$220,000.00
PUBLIC CONSULTATION:	$26,000.00
PLAN FORMULATION/EVALUATION:	$115,000.00
REPORTS/MEETINGS:	$55,000.00
OTHER COMPONENTS?:	

Breakdown of Data Inventory/Analysis:

Hydrology/flood/erosion:	$70,000.00
Hydrogeology:	$15,000.00
Water Quality:	$20,000.00
Aquatic Resources:	$20,000.00
Stream Morphology:	$10,000.00
Terrestrial Resources:	$25,000.00
Mapping/Data Management:	$0.00
Other Costs?	

CONTRIBUTORS: MNR - 50%; Municipalities - 50%

STUDY PARTICIPATION

# STEERING MEMBERS:	15	# PUBLIC ADVISORY MEMBERS:	20
# TECHNICAL MEMBERS:	10	OTHER?	

AGENCIES INVOLVED:

CA	☒	UPPER	☒	HEALTH UNIT	☐	MOEE	☒	MAFRA	☒	MNDM	☐
PUBLIC	☒	LOWER	☒			MTO	☒	MMAH	☒	MNR	☒

OTHER: Aggregate industry, landowners, U of Guelph.

MUNICIPALITIES INVOLVED: Regional Municipality of Waterloo, City of Guelph, City of Cambridge, County of Wellington, Twp. of Puslinch

#53 MOFFAT CREEK WATERSHED PLAN

KEY CONTACT:	Gus Rungis	Lead Agency:	Developer
Phone:	(519) 621-2761	Fax:	(519) 621-4844
Initiation Date:	01-Jan-90	Completion Date:	01-Aug-96
Receiving Stream:	Grand River	Main Land Use:	Agricultural
CA Involved:	Grand River	Area Municipality:	Beverly Township
MOEE Region:	West Central	MNR District:	Cambridge

STUDY AREA CHARACTERISTICS

POPULATION: 10000 SIZE (KM2): 20

LANDUSE: % DEVELOPED: 15 % AGRICULTURAL: 30 % OPEN: 25 % FOREST: 30

STUDY ISSUES:

Surface Water - Flooding	☒	Aquatic Life/Fisheries	☒	Private/Communal Water	☐
Surface Water - Low Flow	☐	Wetland/ANSIs	☒	Private/Communal Sewage	☐
Surface Water - Stormwater	☒	Municipal Water	☐	Aggregates	☐
Ground Water Quantity	☐	Municipal Sewage	☐	Transportation	☐
Surface Water Quality	☐	Stream Channel/Buffer	☐	Agriculture	☐
Ground Water Quality	☐	Waste Disposal	☐		

TRIGGER AND OTHER ISSUES: Development pressure.

PLAN COMPLETION AND IMPLEMENTATION

STUDY STATUS:	completed	Implementation Strategy Prepared?	☐	Monitoring Strategy Prepared?	☐
Digital Data Available?	☐	Plan Being Implemented?	☐	Monitoring Underway?	☐

FINANCIAL INFORMATION

TOTAL COST: $200,000.00

DATA INVENTORY/ANALYSIS:
PUBLIC CONSULTATION:
PLAN FORMULATION/EVALUATION:
REPORTS/MEETINGS:
OTHER COMPONENTS?:

Breakdown of Data Inventory/Analysis:
Hydrology/flood/erosion:
Hydrogeology:
Water Quality:
Aquatic Resources:
Stream Morphology:
Terrestrial Resources:
Mapping/Data Management:
Other Costs?

CONTRIBUTORS: Developer - 100%

STUDY PARTICIPATION

STEERING MEMBERS: 10
TECHNICAL MEMBERS:
PUBLIC ADVISORY MEMBERS:
OTHER?

AGENCIES INVOLVED:

CA	☒	UPPER	☒	HEALTH UNIT	☐	MOEE	☒	MAFRA	☐	MNDM	☐
PUBLIC	☐	LOWER	☒			MTO	☐	MMAH	☐	MNR	☒

OTHER: Developer.

MUNICIPALITIES INVOLVED: City of Cambridge, Twp of North Dumfries, Region of Waterloo.

#54 MOOSE RIVER ENVIRONMENTAL INFO. PARTNERSHIP (Phase1)

KEY CONTACT:	George Duckworth	Lead Agency:	Ministry of Natural Resources
Phone:	(705) 272-7185	Fax:	(705) 272-7151
Initiation Date:	01-Apr-95	Completion Date:	
Receiving Stream:	James Bay	Main Land Use:	Forest
CA Involved:		Area Municipality:	Northeast Ontario Municipal Association
MOEE Region:	Northern	MNR District:	Cochrane/Hearst/Ti

STUDY AREA CHARACTERISTICS

POPULATION: 80000 SIZE (KM2): 109000

LANDUSE: % DEVELOPED: 1 % AGRICULTURAL: 0 % OPEN: 5 % FOREST: 94

STUDY ISSUES:

Surface Water - Flooding	☒	Aquatic Life/Fisheries	☒	Private/Communal Water	☐
Surface Water - Low Flow	☒	Wetland/ANSIs	☐	Private/Communal Sewage	☐
Surface Water - Stormwater	☐	Municipal Water	☐	Aggregates	☒
Ground Water Quantity	☐	Municipal Sewage	☐	Transportation	☒
Surface Water Quality	☐	Stream Channel/Buffer	☒	Agriculture	☐
Ground Water Quality	☐	Waste Disposal	☐		

TRIGGER AND OTHER ISSUES: Hydro dev./Forestry/Mining/Navigation/River Regulation/Aboriginal Values/Cum. Effects/Tourism

PLAN COMPLETION AND IMPLEMENTATION

STUDY STATUS:	ongoing	Implementation Strategy Prepared?	☐	Monitoring Strategy Prepared?	☐
Digital Data Available?	☒	Plan Being Implemented?	☐	Monitoring Underway?	☐

FINANCIAL INFORMATION

TOTAL COST: $785,000.00

DATA INVENTORY/ANALYSIS:	$540,000.00
PUBLIC CONSULTATION:	$10,000.00
PLAN FORMULATION/EVALUATION:	$40,000.00
REPORTS/MEETINGS:	$215,000.00
OTHER COMPONENTS?:	Expenditures represent Phase I study only

Breakdown of Data Inventory/Analysis:
Hydrology/flood/erosion:
Hydrogeology:
Water Quality:
Aquatic Resources:
Stream Morphology:
Terrestrial Resources:
Mapping/Data Management:
Other Costs? Expenditures can not be matched to outlined categories

CONTRIBUTORS: MNR (97%), Ontario Hydro (3%)

STUDY PARTICIPATION

# STEERING MEMBERS:	10	# PUBLIC ADVISORY MEMBERS:	0
# TECHNICAL MEMBERS:	0	OTHER?	

AGENCIES INVOLVED:

CA	☐	UPPER	☐	HEALTH UNIT	☐	MOEE	☒	MAFRA	☐	MNDM	☒
PUBLIC	☒	LOWER	☐			MTO	☐	MMAH	☐	MNR	☒

OTHER: Environment Canada (DOE) ,WABUN,, Mushkeyowak Tribunal Councils

MUNICIPALITIES INVOLVED: NEOMA - Northeast Ontario Municipal Association

#55 MORNINGSIDE TRIBUTARY SUBWATERSHED STUDY

KEY CONTACT:	Peter Cookson	Lead Agency:	City of Scarborough
Phone:	(416) 396-7156	Fax:	(416) 396-6920
Initiation Date:	01-Jun-93	Completion Date:	
Receiving Stream:	Rouge River	Main Land Use:	Developed
CA Involved:	Metro Toronto and Region	Area Municipality:	Reg. Mun. of York
MOEE Region:	Central	MNR District:	Maple

STUDY AREA CHARACTERISTICS

POPULATION: 75000 SIZE (KM2): 21

LANDUSE: % DEVELOPED: 50 % AGRICULTURAL: 10 % OPEN: 20 % FOREST: 20

STUDY ISSUES:

Surface Water - Flooding	☒	Aquatic Life/Fisheries	☒	Private/Communal Water	☐
Surface Water - Low Flow	☒	Wetland/ANSIs	☐	Private/Communal Sewage	☐
Surface Water - Stormwater	☒	Municipal Water	☐	Aggregates	☐
Ground Water Quantity	☒	Municipal Sewage	☐	Transportation	☐
Surface Water Quality	☒	Stream Channel/Buffer	☒	Agriculture	☐
Ground Water Quality	☐	Waste Disposal	☐		

TRIGGER AND OTHER ISSUES: Future development/remediation.

PLAN COMPLETION AND IMPLEMENTATION

STUDY STATUS: ongoing		Implementation Strategy Prepared?	☐	Monitoring Strategy Prepared?	☒
Digital Data Available?	☒	Plan Being Implemented?	☒	Monitoring Underway?	☐

FINANCIAL INFORMATION

TOTAL COST: $550,000.00

DATA INVENTORY/ANALYSIS:	$198,000.00
PUBLIC CONSULTATION:	$115,000.00
PLAN FORMULATION/EVALUATION:	$122,000.00
REPORTS/MEETINGS:	$115,000.00
OTHER COMPONENTS?:	

Breakdown of Data Inventory/Analysis:

Hydrology/flood/erosion:	$22,000.00
Hydrogeology:	$33,000.00
Water Quality:	$22,000.00
Aquatic Resources:	$22,000.00
Stream Morphology:	$38,500.00
Terrestrial Resources:	$22,000.00
Mapping/Data Management:	$38,500.00
Other Costs?	

CONTRIBUTORS: City of Scarborough: 100%

STUDY PARTICIPATION

# STEERING MEMBERS:	22	# PUBLIC ADVISORY MEMBERS:	10
# TECHNICAL MEMBERS:	10	OTHER?	

AGENCIES INVOLVED:

CA	☒	UPPER	☒	HEALTH UNIT	☐	MOEE	☒	MAFRA	☐	MNDM	☐
PUBLIC	☐	LOWER	☒			MTO	☒	MMAH	☐	MNR	☒

OTHER: Save the Rouge Assoc.

MUNICIPALITIES INVOLVED: Regional Municipality of York, City of Scarborough, Malvern

#56 MOSQUITO CREEK WATERSHED PLAN

KEY CONTACT:	Steve Suke	Lead Agency:	Lakehead Region CA
Phone:	(807) 344-5857	Fax:	(807) 345-9156
Initiation Date:	01-Jan-94	Completion Date:	01-Jan-96
Receiving Stream:	Kaministiquia River	Main Land Use:	Developed
CA Involved:	Lakehead Region	Area Municipality:	City of Thunder Bay
MOEE Region:	Northern	MNR District:	Thunder Bay

STUDY AREA CHARACTERISTICS

POPULATION: 3000 SIZE (KM2): 31

LANDUSE: % DEVELOPED: 30 % AGRICULTURAL: 10 % OPEN: 10 % FOREST: 50

STUDY ISSUES:

Surface Water - Flooding	☒	Aquatic Life/Fisheries	☒	Private/Communal Water	☐
Surface Water - Low Flow	☒	Wetland/ANSIs	☐	Private/Communal Sewage	☒
Surface Water - Stormwater	☒	Municipal Water	☐	Aggregates	☐
Ground Water Quantity	☐	Municipal Sewage	☐	Transportation	☐
Surface Water Quality	☒	Stream Channel/Buffer	☒	Agriculture	☐
Ground Water Quality	☐	Waste Disposal	☐		

TRIGGER AND OTHER ISSUES: Development pressure.

PLAN COMPLETION AND IMPLEMENTATION

STUDY STATUS:	completed	Implementation Strategy Prepared?	☐	Monitoring Strategy Prepared?	☐
Digital Data Available?	☐	Plan Being Implemented?	☒	Monitoring Underway?	☒

FINANCIAL INFORMATION

TOTAL COST: $60,000.00

DATA INVENTORY/ANALYSIS:	$30,000.00
PUBLIC CONSULTATION:	$4,000.00
PLAN FORMULATION/EVALUATION:	$18,000.00
REPORTS/MEETINGS:	$8,000.00
OTHER COMPONENTS?:	

Breakdown of Data Inventory/Analysis:

Hydrology/flood/erosion:	$16,000.00
Hydrogeology:	$0.00
Water Quality:	$5,000.00
Aquatic Resources:	$3,000.00
Stream Morphology:	$3,000.00
Terrestrial Resources:	$3,000.00
Mapping/Data Management:	$0.00
Other Costs?	

CONTRIBUTORS: MNR - 50%; Municipality - 40%

STUDY PARTICIPATION

# STEERING MEMBERS:	8	# PUBLIC ADVISORY MEMBERS:	4
# TECHNICAL MEMBERS:	4	OTHER?	

AGENCIES INVOLVED:

CA	☒	UPPER	☐	HEALTH UNIT	☒	MOEE	☒	MAFRA	☐	MNDM	☐
PUBLIC	☒	LOWER	☒			MTO	☐	MMAH	☐	MNR	☒

OTHER:

MUNICIPALITIES INVOLVED: Twp. of Neebing, City of Thunder Bay

#57 MULLET/LEVI/MAIN CREDIT SUBWATERSHED STUDIES

KEY CONTACT:	Carl Brawley	Lead Agency:	City of Brampton
Phone:	(905) 874-2000	Fax:	(905) 874-2119
Initiation Date:	01-Jun-92	Completion Date:	
Receiving Stream:	Credit River	Main Land Use:	Developed
CA Involved:	Credit Valley	Area Municipality:	Reg. Mun. of Halton and Peel
MOEE Region:	Central	MNR District:	Maple

STUDY AREA CHARACTERISTICS

POPULATION: 100000 SIZE (KM2): 55

LANDUSE: % DEVELOPED: 52 % AGRICULTURAL: 36 % OPEN: 10 % FOREST: 2

STUDY ISSUES:

Surface Water - Flooding	☒	Aquatic Life/Fisheries	☒	Private/Communal Water	☐
Surface Water - Low Flow	☐	Wetland/ANSIs	☐	Private/Communal Sewage	☐
Surface Water - Stormwater	☒	Municipal Water	☒	Aggregates	☐
Ground Water Quantity	☐	Municipal Sewage	☐	Transportation	☒
Surface Water Quality	☒	Stream Channel/Buffer	☐	Agriculture	☐
Ground Water Quality	☐	Waste Disposal	☐		

TRIGGER AND OTHER ISSUES: Development pressure/remediation.

PLAN COMPLETION AND IMPLEMENTATION

STUDY STATUS: ongoing		Implementation Strategy Prepared?	☐	Monitoring Strategy Prepared?	☐
Digital Data Available?	☒	Plan Being Implemented?	☐	Monitoring Underway?	☐

FINANCIAL INFORMATION

TOTAL COST: $215,000.00

DATA INVENTORY/ANALYSIS:	$107,500.00
PUBLIC CONSULTATION:	$10,750.00
PLAN FORMULATION/EVALUATION:	$64,500.00
REPORTS/MEETINGS:	$32,250.00
OTHER COMPONENTS?:	

Breakdown of Data Inventory/Analysis:

Hydrology/flood/erosion:	$32,250.00
Hydrogeology:	$10,750.00
Water Quality:	$10,750.00
Aquatic Resources:	$21,500.00
Stream Morphology:	$10,750.00
Terrestrial Resources:	$10,750.00
Mapping/Data Management:	$10,750.00
Other Costs?	

CONTRIBUTORS: Dvlp interest - 100%

STUDY PARTICIPATION

# STEERING MEMBERS:	15	# PUBLIC ADVISORY MEMBERS:	
# TECHNICAL MEMBERS:	8	OTHER?	

AGENCIES INVOLVED:

CA	☒	UPPER	☒	HEALTH UNIT	☐	MOEE	☒	MAFRA	☐	MNDM	☐
PUBLIC	☒	LOWER	☒			MTO	☐	MMAH	☐	MNR	☒

OTHER:

MUNICIPALITIES INVOLVED: Town of Halton Hills, City of Mississauga, City of Brampton.

#58 NORTH CASTOR RIVER SUBWATERSHED PLAN

KEY CONTACT:	Martin Czarski	Lead Agency:	South Nation River CA
Phone:	(613) 984-2948	Fax:	(613) 984-2872
Initiation Date:	23-Sep-93	Completion Date:	31-Jan-96
Receiving Stream:	Castor River	Main Land Use:	Agricultural
CA Involved:	South Nation River	Area Municipality:	Reg. Mun. of Ottawa-Carleton
MOEE Region:	Eastern	MNR District:	Kemptville

STUDY AREA CHARACTERISTICS

POPULATION: 5000 SIZE (KM2): 150

LANDUSE: % DEVELOPED: 10 % AGRICULTURAL: 45 % OPEN: 5 % FOREST: 40

STUDY ISSUES:

Surface Water - Flooding	☐	Aquatic Life/Fisheries	☒	Private/Communal Water	☐
Surface Water - Low Flow	☒	Wetland/ANSIs	☐	Private/Communal Sewage	☐
Surface Water - Stormwater	☒	Municipal Water	☐	Aggregates	☐
Ground Water Quantity	☒	Municipal Sewage	☐	Transportation	☐
Surface Water Quality	☒	Stream Channel/Buffer	☒	Agriculture	☐
Ground Water Quality	☒	Waste Disposal	☐		

TRIGGER AND OTHER ISSUES: Development pressure.

PLAN COMPLETION AND IMPLEMENTATION

STUDY STATUS: completed		Implementation Strategy Prepared?	☒	Monitoring Strategy Prepared?	☒
Digital Data Available?	☒	Plan Being Implemented?	☒	Monitoring Underway?	☒

FINANCIAL INFORMATION

TOTAL COST: $50,000.00

DATA INVENTORY/ANALYSIS:
PUBLIC CONSULTATION:
PLAN FORMULATION/EVALUATION:
REPORTS/MEETINGS:
OTHER COMPONENTS?:

Breakdown of Data Inventory/Analysis:

Hydrology/flood/erosion:	$28,000.00
Hydrogeology:	$0.00
Water Quality:	$0.00
Aquatic Resources:	$0.00
Stream Morphology:	$0.00
Terrestrial Resources:	$0.00
Mapping/Data Management:	$0.00
Other Costs?	

CONTRIBUTORS: South Nation River CA, Twp of Osgoode, RMOC

STUDY PARTICIPATION

STEERING MEMBERS: 12
TECHNICAL MEMBERS:
PUBLIC ADVISORY MEMBERS:
OTHER?

AGENCIES INVOLVED:

CA	☒	UPPER	☒	HEALTH UNIT	☐	MOEE	☐	MAFRA	☐	MNDM	☒
PUBLIC	☒	LOWER	☒			MTO	☐	MMAH	☐	MNR	☒

OTHER:

MUNICIPALITIES INVOLVED: Regional Municipality of Ottawa-Carleton, Twp of Osgoode, City of Gloucester.

#59 NORTHWEST NEWMARKET SUBWATERSHED PLAN

KEY CONTACT:	James Stiver	Lead Agency:	Weston Larkin
Phone:	(905) 738-8080 ex 225	Fax:	(90(S)7) 38:-6637
Initiation Date:	01-Jan-94	Completion Date:	
Receiving Stream:	Holland River	Main Land Use:	Developed
CA Involved:	Lake Simcoe Region	Area Municipality:	Reg. Mun. of York
MOEE Region:	SouthWestern	MNR District:	Midhurst

STUDY AREA CHARACTERISTICS

POPULATION: 13500 SIZE (KM2): 3

LANDUSE: % DEVELOPED: 75 % AGRICULTURAL: 0 % OPEN: 25 % FOREST: 0

STUDY ISSUES:

Surface Water - Flooding	☒	Aquatic Life/Fisheries	☒	Private/Communal Water	☐
Surface Water - Low Flow	☒	Wetland/ANSIs	☐	Private/Communal Sewage	☐
Surface Water - Stormwater	☒	Municipal Water	☐	Aggregates	☐
Ground Water Quantity	☐	Municipal Sewage	☐	Transportation	☐
Surface Water Quality	☐	Stream Channel/Buffer	☒	Agriculture	☐
Ground Water Quality	☐	Waste Disposal	☐		

TRIGGER AND OTHER ISSUES:

PLAN COMPLETION AND IMPLEMENTATION

STUDY STATUS: ongoing		Implementation Strategy Prepared?	☐	Monitoring Strategy Prepared?	☐
Digital Data Available?	☐	Plan Being Implemented?	☐	Monitoring Underway?	☐

FINANCIAL INFORMATION

TOTAL COST: $130,000.00

DATA INVENTORY/ANALYSIS:
PUBLIC CONSULTATION:
PLAN FORMULATION/EVALUATION:
REPORTS/MEETINGS:
OTHER COMPONENTS?:

Breakdown of Data Inventory/Analysis:
Hydrology/flood/erosion:
Hydrogeology:
Water Quality:
Aquatic Resources:
Stream Morphology:
Terrestrial Resources:
Mapping/Data Management:
Other Costs?

CONTRIBUTORS: Privately Funded

STUDY PARTICIPATION

STEERING MEMBERS:
TECHNICAL MEMBERS:
PUBLIC ADVISORY MEMBERS:
OTHER?

AGENCIES INVOLVED:

CA	☒	UPPER	☒	HEALTH UNIT	☐	MOEE	☐	MAFRA	☐	MNDM	☐
PUBLIC	☐	LOWER	☒			MTO	☒	MMAH	☐	MNR	☒

OTHER:

MUNICIPALITIES INVOLVED: Regional Municipality of York, Town of Newmarket

#60 NOTTAWASAGA VALLEY WATERSHED PLAN

KEY CONTACT:	Charles Burgess/Wayne Wilson	Lead Agency:	Nottawasaga Valley CA
Phone:	(705) 424-1479	Fax:	(705) 424-2115
Initiation Date:	01-Oct-93	Completion Date:	27-Oct-95
Receiving Stream:	Georgian Bay	Main Land Use:	Agricultural
CA Involved:	Nottawasaga Valley	Area Municipality:	Simcoe & Dufferin Counties
MOEE Region:	SouthWestern	MNR District:	Midhurst

STUDY AREA CHARACTERISTICS

POPULATION: 120000 SIZE (KM2): 3200

LANDUSE: % DEVELOPED: 10 % AGRICULTURAL: 65 % OPEN:. 0 % FOREST: 25

STUDY ISSUES:

Surface Water - Flooding	☒	Aquatic Life/Fisheries	☒	Private/Communal Water	☒
Surface Water - Low Flow	☒	Wetland/ANSIs	☒	Private/Communal Sewage	☒
Surface Water - Stormwater	☒	Municipal Water	☒	Aggregates	☐
Ground Water Quantity	☒	Municipal Sewage	☒	Transportation	☐
Surface Water Quality	☒	Stream Channel/Buffer	☒	Agriculture	☒
Ground Water Quality	☒	Waste Disposal	☐		

TRIGGER AND OTHER ISSUES: Protection of resources and development pressure.

PLAN COMPLETION AND IMPLEMENTATION

STUDY STATUS:	completed	Implementation Strategy Prepared?	☒	Monitoring Strategy Prepared?	☒
Digital Data Available?	☒	Plan Being Implemented?	☒	Monitoring Underway?	☒

FINANCIAL INFORMATION

TOTAL COST: $184,500.00

DATA INVENTORY/ANALYSIS:	$110,700.00
PUBLIC CONSULTATION:	$36,900.00
PLAN FORMULATION/EVALUATION:	$18,450.00
REPORTS/MEETINGS:	$9,225.00
OTHER COMPONENTS?:	Resident questionnaires 5% - $9,225

Breakdown of Data Inventory/Analysis:

Hydrology/flood/erosion:	$5,535.00
Hydrogeology:	$5,535.00
Water Quality:	$22,140.00
Aquatic Resources:	$5,535.00
Stream Morphology:	$0.00
Terrestrial Resources:	$5,535.00
Mapping/Data Management:	$22,140.00
Other Costs?	

CONTRIBUTORS: Provincial - 50%, Municipalities - 50%

STUDY PARTICIPATION

# STEERING MEMBERS:	7	# PUBLIC ADVISORY MEMBERS:	60
# TECHNICAL MEMBERS:	17	OTHER?	Planning Team of 60

AGENCIES INVOLVED:

CA	☒	UPPER	☒	HEALTH UNIT	☒	MOEE	☒	MAFRA	☒	MNDM	☐
PUBLIC	☒	LOWER	☒			MTO	☐	MMAH	☒	MNR	☒

OTHER: School Boards, NGOs.

MUNICIPALITIES INVOLVED: Simcoe, Dufferin, Grey Counties, Twp. of Adjala - Tosorontio, Amaranth, Essa, Oro/Medonte, Melancthon, Mono, Mulmur, Osprey, Town of Collingwood, Town of Innisfil, Town of New Tecumseth, Shelburne Twp., Town of Wasaga Beach, City of Barrie, Springwater Twp., Clearview Twp., Town of Bradford - Gwillimbury.

#61 OSENEGO CREEK SUBWATERSHED PLAN

KEY CONTACT:	Bill Butler	Lead Agency:	Town of Oakville
Phone:	(905) 845-6601 ext. 3320	Fax:	(905) 815-2025
Initiation Date:	01-Jan-95	Completion Date:	01-Jan-96
Receiving Stream:	16 Mile Creek	Main Land Use:	Agricultural
CA Involved:	Halton Region	Area Municipality:	Reg. Mun. of Halton
MOEE Region:	Central	MNR District:	Maple

STUDY AREA CHARACTERISTICS

POPULATION: 10000 SIZE (KM2): 15

LANDUSE: % DEVELOPED: 0 % AGRICULTURAL: 70 % OPEN: 0 % FOREST: 30

STUDY ISSUES:

Surface Water - Flooding	☒	Aquatic Life/Fisheries	☒	Private/Communal Water	☐
Surface Water - Low Flow	☒	Wetland/ANSIs	☐	Private/Communal Sewage	☐
Surface Water - Stormwater	☒	Municipal Water	☐	Aggregates	☐
Ground Water Quantity	☐	Municipal Sewage	☐	Transportation	☐
Surface Water Quality	☒	Stream Channel/Buffer	☒	Agriculture	☐
Ground Water Quality	☐	Waste Disposal	☐		

TRIGGER AND OTHER ISSUES: Development pressure.

PLAN COMPLETION AND IMPLEMENTATION

STUDY STATUS:	completed	Implementation Strategy Prepared?	☒	Monitoring Strategy Prepared?	☐
Digital Data Available?	☐	Plan Being Implemented?	☒	Monitoring Underway?	☐

FINANCIAL INFORMATION

TOTAL COST: $30,000.00

DATA INVENTORY/ANALYSIS:
PUBLIC CONSULTATION:
PLAN FORMULATION/EVALUATION:
REPORTS/MEETINGS:
OTHER COMPONENTS?:

Breakdown of Data Inventory/Analysis:
Hydrology/flood/erosion:
Hydrogeology:
Water Quality:
Aquatic Resources:
Stream Morphology:
Terrestrial Resources:
Mapping/Data Management:
Other Costs?

CONTRIBUTORS: Developer - 100%

STUDY PARTICIPATION

# STEERING MEMBERS:	5	# PUBLIC ADVISORY MEMBERS:	0
# TECHNICAL MEMBERS:	0	OTHER?	

AGENCIES INVOLVED:

CA	☒	UPPER	☒	HEALTH UNIT	☐	MOEE	☐	MAFRA	☐	MNDM	☐
PUBLIC	☐	LOWER	☒			MTO	☐	MMAH	☐	MNR	☒

OTHER:

MUNICIPALITIES INVOLVED: Region of Halton, Town of Oakville

#62 OSHAWA CREEK WATERSHED MANAGEMENT STUDY

KEY CONTACT:	Chris Conti	Lead Agency:	Central Lake Ont. CA
Phone:	(905) 579-0411	Fax:	(905) 579-0994
Initiation Date:	01-Jan-94	Completion Date:	
Receiving Stream:	East Oshawa & Goodman	Main Land Use:	Agricultural
CA Involved:	Central Lake Ontario	Area Municipality:	Reg. Mun. of Durham
MOEE Region:	Central	MNR District:	Maple

STUDY AREA CHARACTERISTICS

POPULATION: SIZE (KM2): 120

LANDUSE: % DEVELOPED: 25 % AGRICULTURAL: 50 % OPEN: 10 % FOREST: 15

STUDY ISSUES:

Surface Water - Flooding	☐	Aquatic Life/Fisheries	☐	Private/Communal Water	☐
Surface Water - Low Flow	☐	Wetland/ANSIs	☐	Private/Communal Sewage	☐
Surface Water - Stormwater	☐	Municipal Water	☐	Aggregates	☐
Ground Water Quantity	☐	Municipal Sewage	☐	Transportation	☐
Surface Water Quality	☐	Stream Channel/Buffer	☐	Agriculture	☐
Ground Water Quality	☐	Waste Disposal	☐		

TRIGGER AND OTHER ISSUES:

PLAN COMPLETION AND IMPLEMENTATION

STUDY STATUS: ongoing		Implementation Strategy Prepared?	☐	Monitoring Strategy Prepared?	☐
Digital Data Available?	☐	Plan Being Implemented?	☐	Monitoring Underway?	☐

FINANCIAL INFORMATION

TOTAL COST: $260,000.00

DATA INVENTORY/ANALYSIS:
PUBLIC CONSULTATION:
PLAN FORMULATION/EVALUATION:
REPORTS/MEETINGS:
OTHER COMPONENTS?:

Breakdown of Data Inventory/Analysis:
Hydrology/flood/erosion:
Hydrogeology:
Water Quality:
Aquatic Resources:
Stream Morphology:
Terrestrial Resources:
Mapping/Data Management:
Other Costs?

CONTRIBUTORS:

STUDY PARTICIPATION

STEERING MEMBERS: 10
TECHNICAL MEMBERS: 0
PUBLIC ADVISORY MEMBERS: 0
OTHER?

AGENCIES INVOLVED:

CA	☒	UPPER	☒	HEALTH UNIT	☐	MOEE	☒	MAFRA	☐	MNDM	☐
PUBLIC	☐	LOWER	☒			MTO	☐	MMAH	☐	MNR	☒

OTHER:

MUNICIPALITIES INVOLVED: Regional Municipality of Durham, City of Oshawa

#63 POLARIS CREEK SUBWATERSHED PLAN

KEY CONTACT:	Kees Pols	Lead Agency:	Mattagami Region CA
Phone:	(705) 264-5309	Fax:	(705) 268-6544
Initiation Date:	01-Jan-94	Completion Date:	01-May-95
Receiving Stream:	Mattagami River	Main Land Use:	Developed
CA Involved:	Mattagami Region	Area Municipality:	City of Timmins
MOEE Region:	Northern	MNR District:	Timmins

STUDY AREA CHARACTERISTICS

POPULATION: 150000 SIZE (KM2): 20

LANDUSE: % DEVELOPED: 100 % AGRICULTURAL: 0 % OPEN: 0 % FOREST: 0

STUDY ISSUES:

Surface Water - Flooding	☒	Aquatic Life/Fisheries	☐	Private/Communal Water	☐
Surface Water - Low Flow	☐	Wetland/ANSIs	☐	Private/Communal Sewage	☐
Surface Water - Stormwater	☒	Municipal Water	☐	Aggregates	☐
Ground Water Quantity	☐	Municipal Sewage	☐	Transportation	☐
Surface Water Quality	☐	Stream Channel/Buffer	☐	Agriculture	☐
Ground Water Quality	☐	Waste Disposal	☐		

TRIGGER AND OTHER ISSUES: Remediation for flooding/erosion.

PLAN COMPLETION AND IMPLEMENTATION

STUDY STATUS:	completed	Implementation Strategy Prepared?	☒	Monitoring Strategy Prepared?	☐
Digital Data Available?	☐	Plan Being Implemented?	☐	Monitoring Underway?	☐

FINANCIAL INFORMATION

TOTAL COST: $60,000.00

DATA INVENTORY/ANALYSIS:	$5,000.00
PUBLIC CONSULTATION:	$5,000.00
PLAN FORMULATION/EVALUATION:	$0.00
REPORTS/MEETINGS:	$50,000.00
OTHER COMPONENTS?:	

Breakdown of Data Inventory/Analysis:
Hydrology/flood/erosion:
Hydrogeology:
Water Quality:
Aquatic Resources:
Stream Morphology:
Terrestrial Resources:
Mapping/Data Management:
Other Costs?

CONTRIBUTORS: MNR - 50%; City of Timmins - 50%.

STUDY PARTICIPATION

STEERING MEMBERS: 5
PUBLIC ADVISORY MEMBERS: 8
TECHNICAL MEMBERS:
OTHER?

AGENCIES INVOLVED:

CA	☒	UPPER	☐	HEALTH UNIT	☐	MOEE	☐	MAFRA	☐	MNDM	☐
PUBLIC	☒	LOWER	☒			MTO	☐	MMAH	☐	MNR	☒

OTHER:

MUNICIPALITIES INVOLVED: City of Timmins

#64 POTTER CREEK WATERSHED STUDY

KEY CONTACT:	Ernie Margetson	Lead Agency:	Moira River CA
Phone:	(613) 968-3434	Fax:	(613) 968-8240
Initiation Date:	01-Jan-92	Completion Date:	01-Jan-94
Receiving Stream:	Bay of Quinte	Main Land Use:	Agricultural
CA Involved:	Moira River	Area Municipality:	Township of Sidney
MOEE Region:	Eastern	MNR District:	Tweed

STUDY AREA CHARACTERISTICS

POPULATION: 4000 SIZE (KM2): 35

LANDUSE: % DEVELOPED: 15 % AGRICULTURAL: 50 % OPEN: 35 % FOREST: 0

STUDY ISSUES:

Surface Water - Flooding	☒	Aquatic Life/Fisheries	☒	Private/Communal Water	☐
Surface Water - Low Flow	☐	Wetland/ANSIs	☐	Private/Communal Sewage	☐
Surface Water - Stormwater	☒	Municipal Water	☐	Aggregates	☐
Ground Water Quantity	☐	Municipal Sewage	☐	Transportation	☐
Surface Water Quality	☒	Stream Channel/Buffer	☐	Agriculture	☐
Ground Water Quality	☐	Waste Disposal	☐		

TRIGGER AND OTHER ISSUES: Development pressure.

PLAN COMPLETION AND IMPLEMENTATION

STUDY STATUS:	completed	Implementation Strategy Prepared?	☐	Monitoring Strategy Prepared?	☐
Digital Data Available?	☒	Plan Being Implemented?	☒	Monitoring Underway?	☐

FINANCIAL INFORMATION

TOTAL COST: $250,000.00

DATA INVENTORY/ANALYSIS:	$180,000.00
PUBLIC CONSULTATION:	$15,000.00
PLAN FORMULATION/EVALUATION:	$30,000.00
REPORTS/MEETINGS:	$25,000.00
OTHER COMPONENTS?:	

Breakdown of Data Inventory/Analysis:

Hydrology/flood/erosion:	$25,000.00
Hydrogeology:	$10,000.00
Water Quality:	$15,000.00
Aquatic Resources:	$15,000.00
Stream Morphology:	$0.00
Terrestrial Resources:	$15,000.00
Mapping/Data Management:	$100,000.00
Other Costs?	

CONTRIBUTORS: MNR, Mun (10%), Great Lakes Clean Up Fund (40%)

STUDY PARTICIPATION

# STEERING MEMBERS:	20	# PUBLIC ADVISORY MEMBERS:	0
# TECHNICAL MEMBERS:	5	OTHER?	

AGENCIES INVOLVED:

CA	☒	UPPER	☐	HEALTH UNIT	☐	MOEE	☒	MAFRA	☐	MNDM	☐
PUBLIC	☒	LOWER	☒			MTO	☐	MMAH	☐	MNR	☒

OTHER:

MUNICIPALITIES INVOLVED: Twp. of Sidney

#65 POTTERSBURG CREEK/CRUMLIN DRAIN

KEY CONTACT:	Ron Standish	Lead Agency:	City of London
Phone:	(519) 661-4978	Fax:	(519) 661-5931
Initiation Date:	01-May-93	Completion Date:	01-May-95
Receiving Stream:	Thames River	Main Land Use:	Agricultural
CA Involved:	Upper Thames River	Area Municipality:	Middlesex County
MOEE Region:	SouthWestern	MNR District:	Aylmer

STUDY AREA CHARACTERISTICS

POPULATION: SIZE (KM2): 49

LANDUSE: % DEVELOPED: 40 % AGRICULTURAL: 45 % OPEN: 10 % FOREST: 5

STUDY ISSUES:

Surface Water - Flooding	☒	Aquatic Life/Fisheries	☐	Private/Communal Water	☐
Surface Water - Low Flow	☐	Wetland/ANSIs	☐	Private/Communal Sewage	☐
Surface Water - Stormwater	☒	Municipal Water	☐	Aggregates	☒
Ground Water Quantity	☐	Municipal Sewage	☐	Transportation	☐
Surface Water Quality	☐	Stream Channel/Buffer	☒	Agriculture	☒
Ground Water Quality	☐	Waste Disposal	☐		

TRIGGER AND OTHER ISSUES:

PLAN COMPLETION AND IMPLEMENTATION

STUDY STATUS:	completed	Implementation Strategy Prepared?	☐	Monitoring Strategy Prepared?	☐
Digital Data Available?	☒	Plan Being Implemented?	☒	Monitoring Underway?	☐

FINANCIAL INFORMATION

TOTAL COST: $275,000.00

DATA INVENTORY/ANALYSIS:	$118,000.00
PUBLIC CONSULTATION:	$19,000.00
PLAN FORMULATION/EVALUATION:	$114,000.00
REPORTS/MEETINGS:	$24,000.00
OTHER COMPONENTS?:	

Breakdown of Data Inventory/Analysis:

Hydrology/flood/erosion:	$30,000.00
Hydrogeology:	$16,000.00
Water Quality:	$30,000.00
Aquatic Resources:	$5,000.00
Stream Morphology:	$10,000.00
Terrestrial Resources:	$7,000.00
Mapping/Data Management:	$20,000.00

Other Costs? Aquatic and Terrestiral Resources work done as a common study for the City of London Sw Studies.

CONTRIBUTORS: City of London - 100%

STUDY PARTICIPATION

# STEERING MEMBERS:	0	# PUBLIC ADVISORY MEMBERS:	0
# TECHNICAL MEMBERS:	21	OTHER?	

AGENCIES INVOLVED:

CA	☒	UPPER	☒	HEALTH UNIT	☐	MOEE	☒	MAFRA	☒	MNDM	☐
PUBLIC	☒	LOWER	☒			MTO	☐	MMAH	☐	MNR	☒

OTHER: London Development Institute, City of London - Environmental & Ecological Planning Advisory Committee, Agricultural Advisory Committee.

MUNICIPALITIES INVOLVED: City of London, Village of Belmont, Twp of Southwold, Twp of Yarmouth.

#66 ROBINSON CREEK SUBWATERSHED PLAN

KEY CONTACT:	Les Arishenkoff	Lead Agency:	Town of Markham
Phone:	(905) 477-7000 ext. 302	Fax:	(905) 479-7766
Initiation Date:	01-Oct-93	Completion Date:	01-May-94
Receiving Stream:	Little Rouge River	Main Land Use:	Agricultural
CA Involved:	Metro Toronto and Region	Area Municipality:	Reg. Mun. of York
MOEE Region:	Central	MNR District:	Maple

STUDY AREA CHARACTERISTICS

POPULATION: 10000 SIZE (KM2): 12

LANDUSE: % DEVELOPED: 20 % AGRICULTURAL: 45 % OPEN: 5 % FOREST: 20

STUDY ISSUES:

Surface Water - Flooding	☒	Aquatic Life/Fisheries	☒	Private/Communal Water	☐
Surface Water - Low Flow	☒	Wetland/ANSIs	☒	Private/Communal Sewage	☐
Surface Water - Stormwater	☒	Municipal Water	☒	Aggregates	☐
Ground Water Quantity	☒	Municipal Sewage	☒	Transportation	☒
Surface Water Quality	☒	Stream Channel/Buffer	☒	Agriculture	☒
Ground Water Quality	☒	Waste Disposal	☐		

TRIGGER AND OTHER ISSUES: Development/urban expansion/terrestrial.

PLAN COMPLETION AND IMPLEMENTATION

STUDY STATUS:	completed	Implementation Strategy Prepared?	☒	Monitoring Strategy Prepared?	☐
Digital Data Available?	☒	Plan Being Implemented?	☒	Monitoring Underway?	☐

FINANCIAL INFORMATION

TOTAL COST: $50,000.00

DATA INVENTORY/ANALYSIS:
PUBLIC CONSULTATION:
PLAN FORMULATION/EVALUATION:
REPORTS/MEETINGS:
OTHER COMPONENTS?:

Breakdown of Data Inventory/Analysis:
Hydrology/flood/erosion:
Hydrogeology:
Water Quality:
Aquatic Resources:
Stream Morphology:
Terrestrial Resources:
Mapping/Data Management:
Other Costs?

CONTRIBUTORS: Developer 100%

STUDY PARTICIPATION

STEERING MEMBERS:
TECHNICAL MEMBERS: 10
PUBLIC ADVISORY MEMBERS:
OTHER? Two public meetings.

AGENCIES INVOLVED:

CA	☒	UPPER	☐	HEALTH UNIT	☐	MOEE	☒	MAFRA	☐	MNDM	☐
PUBLIC	☒	LOWER	☒			MTO	☐	MMAH	☐	MNR	☒

OTHER:

MUNICIPALITIES INVOLVED: Town of Markham

#67 SAWMILL CREEK SUBWATERSHED PLAN

KEY CONTACT:	Hazel Breton	Lead Agency:	Credit Valley CA
Phone:	(905) 670-1615 ext. 235	Fax:	(905) 670-2210
Initiation Date:	01-Jun-93	Completion Date:	01-Apr-95
Receiving Stream:	Credit River	Main Land Use:	Developed
CA Involved:	Credit Valley	Area Municipality:	City of Mississauga
MOEE Region:	Central	MNR District:	Maple

STUDY AREA CHARACTERISTICS

POPULATION: 12000 SIZE (KM2): 20

LANDUSE: % DEVELOPED: 70 % AGRICULTURAL: 0 % OPEN: 25 % FOREST: 5

STUDY ISSUES:

Surface Water - Flooding	☒	Aquatic Life/Fisheries	☒	Private/Communal Water	☐
Surface Water - Low Flow	☐	Wetland/ANSIs	☐	Private/Communal Sewage	☐
Surface Water - Stormwater	☒	Municipal Water	☐	Aggregates	☐
Ground Water Quantity	☐	Municipal Sewage	☐	Transportation	☐
Surface Water Quality	☒	Stream Channel/Buffer	☒	Agriculture	☐
Ground Water Quality	☐	Waste Disposal	☐		

TRIGGER AND OTHER ISSUES: Erosion, rehabilitation, resource protection.

PLAN COMPLETION AND IMPLEMENTATION

STUDY STATUS:	completed	Implementation Strategy Prepared?	☒	Monitoring Strategy Prepared?	☐
Digital Data Available?	☐	Plan Being Implemented?	☒	Monitoring Underway?	☒

FINANCIAL INFORMATION

TOTAL COST: $126,000.00

DATA INVENTORY/ANALYSIS:	$97,200.00
PUBLIC CONSULTATION:	$3,000.00
PLAN FORMULATION/EVALUATION:	$12,400.00
REPORTS/MEETINGS:	$13,400.00
OTHER COMPONENTS?:	

Breakdown of Data Inventory/Analysis:

Hydrology/flood/erosion:	$7,500.00
Hydrogeology:	$2,800.00
Water Quality:	$0.00
Aquatic Resources:	$4,900.00
Stream Morphology:	$62,000.00
Terrestrial Resources:	$0.00
Mapping/Data Management:	$20,000.00
Other Costs?	

CONTRIBUTORS: MNR - 50%; Municipal - 50%

STUDY PARTICIPATION

# STEERING MEMBERS:	7	# PUBLIC ADVISORY MEMBERS:	0
# TECHNICAL MEMBERS:	13	OTHER?	Public mtgs.

AGENCIES INVOLVED:

CA	☒	UPPER	☐	HEALTH UNIT	☐	MOEE	☐	MAFRA	☐	MNDM	☐
PUBLIC	☒	LOWER	☐			MTO	☐	MMAH	☐	MNR	☒

OTHER:

MUNICIPALITIES INVOLVED: City of Mississauga

#68 SAWMILL CREEK WATERSHED PLAN

KEY CONTACT:	Bruce Reid	Lead Agency:	Rideau Valley CA
Phone:	(613) 692-3571	Fax:	(613) 692-0831
Initiation Date:	01-Apr-92	Completion Date:	12-Dec-94
Receiving Stream:	Rideau River	Main Land Use:	Developed
CA Involved:	Rideau Valley	Area Municipality:	Reg. Mun. of Ottawa-Carleton
MOEE Region:	Eastern	MNR District:	Kemptville

STUDY AREA CHARACTERISTICS

POPULATION: SIZE (KM2): 24

LANDUSE: % DEVELOPED: 80 % AGRICULTURAL: 0 % OPEN: 20 % FOREST: 0

STUDY ISSUES:

Surface Water - Flooding	☒	Aquatic Life/Fisheries	☒	Private/Communal Water	☐
Surface Water - Low Flow	☐	Wetland/ANSIs	☐	Private/Communal Sewage	☐
Surface Water - Stormwater	☐	Municipal Water	☐	Aggregates	☐
Ground Water Quantity	☐	Municipal Sewage	☐	Transportation	☐
Surface Water Quality	☒	Stream Channel/Buffer	☐	Agriculture	☐
Ground Water Quality	☐	Waste Disposal	☐		

TRIGGER AND OTHER ISSUES:

PLAN COMPLETION AND IMPLEMENTATION

STUDY STATUS:	completed	Implementation Strategy Prepared?	☐	Monitoring Strategy Prepared?	☒
Digital Data Available?	☒	Plan Being Implemented?	☒	Monitoring Underway?	☒

FINANCIAL INFORMATION

TOTAL COST: $270,000.00

DATA INVENTORY/ANALYSIS:
PUBLIC CONSULTATION:
PLAN FORMULATION/EVALUATION:
REPORTS/MEETINGS:
OTHER COMPONENTS?:

Breakdown of Data Inventory/Analysis:
Hydrology/flood/erosion:
Hydrogeology:
Water Quality:
Aquatic Resources:
Stream Morphology:
Terrestrial Resources:
Mapping/Data Management:
Other Costs?

CONTRIBUTORS: RVCA/MNR: 50%, MOEE: 25%, RMOC/GLOUC./OTTAWA: 8.3% each

STUDY PARTICIPATION

STEERING MEMBERS: 10
TECHNICAL MEMBERS:
PUBLIC ADVISORY MEMBERS:
OTHER?

AGENCIES INVOLVED:

CA	☐	UPPER	☒	HEALTH UNIT	☐	MOEE	☐	MAFRA	☐	MNDM	☐
PUBLIC	☐	LOWER	☒			MTO	☐	MMAH	☐	MNR	☐

OTHER:

MUNICIPALITIES INVOLVED: City of Gloucester, City of Ottawa, Reg. Mun. of Ottawa-Carleton

#69 SHARON CREEK OPA 55 STUDY

KEY CONTACT:	Wayne Hunt	Lead Agency:	Town of East Gwillimbury
Phone:	(905) 478-4282	Fax:	(905) 478-2808
Initiation Date:	01-Jan-94	Completion Date:	01-Jun-95
Receiving Stream:	Holland River	Main Land Use:	Agricultural
CA Involved:	Lake Simcoe Region	Area Municipality:	Town of East Gwillimbury
MOEE Region:	SouthWestern	MNR District:	Midhurst

STUDY AREA CHARACTERISTICS

POPULATION: 5500 SIZE (KM2): 113

LANDUSE: % DEVELOPED: 10 % AGRICULTURAL: 50 % OPEN: 40 % FOREST: 0

STUDY ISSUES:

Surface Water - Flooding	☐	Aquatic Life/Fisheries	☒	Private/Communal Water	☐
Surface Water - Low Flow	☐	Wetland/ANSIs	☒	Private/Communal Sewage	☐
Surface Water - Stormwater	☒	Municipal Water	☐	Aggregates	☐
Ground Water Quantity	☐	Municipal Sewage	☐	Transportation	☐
Surface Water Quality	☒	Stream Channel/Buffer	☒	Agriculture	☐
Ground Water Quality	☒	Waste Disposal	☐		

TRIGGER AND OTHER ISSUES: Development pressure.

PLAN COMPLETION AND IMPLEMENTATION

STUDY STATUS: completed		Implementation Strategy Prepared?	☒	Monitoring Strategy Prepared?	☒
Digital Data Available?	☐	Plan Being Implemented?	☒	Monitoring Underway?	☒

FINANCIAL INFORMATION

TOTAL COST: $50,000.00

DATA INVENTORY/ANALYSIS:
PUBLIC CONSULTATION:
PLAN FORMULATION/EVALUATION:
REPORTS/MEETINGS:
OTHER COMPONENTS?:

Breakdown of Data Inventory/Analysis:
Hydrology/flood/erosion:
Hydrogeology:
Water Quality:
Aquatic Resources:
Stream Morphology:
Terrestrial Resources:
Mapping/Data Management:
Other Costs?

CONTRIBUTORS: Area developers.

STUDY PARTICIPATION

STEERING MEMBERS:
TECHNICAL MEMBERS: 7
PUBLIC ADVISORY MEMBERS:
OTHER?

AGENCIES INVOLVED:

CA	☒	UPPER	☐	HEALTH UNIT	☐	MOEE	☒	MAFRA	☐	MNDM	☐
PUBLIC	☐	LOWER	☒			MTO	☐	MMAH	☐	MNR	☒

OTHER:

MUNICIPALITIES INVOLVED: Town of East Gwillimbury

#70 SHELDON CREEK WATERSHED MASTER PLAN

KEY CONTACT:	Allan Magi	Lead Agency:	City of Burlington
Phone:	(905) 335-7675	Fax:	(905) 335-7861
Initiation Date:	01-Oct-91	Completion Date:	01-Oct-93
Receiving Stream:	Bronte Creek to Lake Ontario	Main Land Use:	Agricultural
CA Involved:	Halton Region	Area Municipality:	Reg. Mun. of Halton
MOEE Region:	Central	MNR District:	Maple

STUDY AREA CHARACTERISTICS

POPULATION: 50000 SIZE (KM2): 20

LANDUSE: % DEVELOPED: 40 % AGRICULTURAL: 30 % OPEN: 30 % FOREST: 0

STUDY ISSUES:

Surface Water - Flooding	☒	Aquatic Life/Fisheries	☒	Private/Communal Water	☐
Surface Water - Low Flow	☐	Wetland/ANSIs	☐	Private/Communal Sewage	☐
Surface Water - Stormwater	☒	Municipal Water	☐	Aggregates	☐
Ground Water Quantity	☐	Municipal Sewage	☐	Transportation	☐
Surface Water Quality	☒	Stream Channel/Buffer	☒	Agriculture	☐
Ground Water Quality	☐	Waste Disposal	☐		

TRIGGER AND OTHER ISSUES: Impact of future development.

PLAN COMPLETION AND IMPLEMENTATION

STUDY STATUS:	completed	Implementation Strategy Prepared?	☒	Monitoring Strategy Prepared?	☒
Digital Data Available?	☒	Plan Being Implemented?	☒	Monitoring Underway?	☒

FINANCIAL INFORMATION

TOTAL COST: $225,000.00

DATA INVENTORY/ANALYSIS:	$157,500.00
PUBLIC CONSULTATION:	$22,500.00
PLAN FORMULATION/EVALUATION:	$22,500.00
REPORTS/MEETINGS:	$22,500.00
OTHER COMPONENTS?:	

Breakdown of Data Inventory/Analysis:

Hydrology/flood/erosion:	$31,500.00
Hydrogeology:	$7,875.00
Water Quality:	$7,875.00
Aquatic Resources:	$15,750.00
Stream Morphology:	$7,875.00
Terrestrial Resources:	$15,750.00
Mapping/Data Management:	$23,625.00
Other Costs?	

CONTRIBUTORS: City of Burlington - 80%, Town of Oakville - 20%

STUDY PARTICIPATION

# STEERING MEMBERS:	18	# PUBLIC ADVISORY MEMBERS:	0
# TECHNICAL MEMBERS:	24	OTHER?	

AGENCIES INVOLVED:

CA	☒	UPPER	☒	HEALTH UNIT	☐	MOEE	☒	MAFRA	☐	MNDM	☐
PUBLIC	☐	LOWER	☒			MTO	☒	MMAH	☐	MNR	☒

OTHER:

MUNICIPALITIES INVOLVED: City of Burlington, Town of Oakville, Regional Mun. of Halton

#71 SIXTEEN MILE CREEK WATERSHED PLAN

KEY CONTACT:	Dan Stevens	Lead Agency:	Region of Halton
Phone:	(905) 825-6030 ext. 7638	Fax:	(905) 825-0267
Initiation Date:	01-Jan-94	Completion Date:	01-Aug-96
Receiving Stream:	Lake Ontario	Main Land Use:	Agricultural
CA Involved:	Halton Region	Area Municipality:	Reg. Mun. of Halton
MOEE Region:	Central	MNR District:	Maple

STUDY AREA CHARACTERISTICS

POPULATION: SIZE (KM2): 350

LANDUSE: % DEVELOPED: 20 % AGRICULTURAL: 80 % OPEN: 0 % FOREST: 0

STUDY ISSUES:

Surface Water - Flooding	☒	Aquatic Life/Fisheries	☒	Private/Communal Water	☐
Surface Water - Low Flow	☐	Wetland/ANSIs	☐	Private/Communal Sewage	☐
Surface Water - Stormwater	☐	Municipal Water	☐	Aggregates	☒
Ground Water Quantity	☒	Municipal Sewage	☐	Transportation	☒
Surface Water Quality	☒	Stream Channel/Buffer	☒	Agriculture	☒
Ground Water Quality	☒	Waste Disposal	☐		

TRIGGER AND OTHER ISSUES: Development pressures.

PLAN COMPLETION AND IMPLEMENTATION

STUDY STATUS:	completed	Implementation Strategy Prepared?	☒	Monitoring Strategy Prepared?	☒
Digital Data Available?	☒	Plan Being Implemented?	☒	Monitoring Underway?	☐

FINANCIAL INFORMATION

TOTAL COST: $200,000.00

DATA INVENTORY/ANALYSIS:
PUBLIC CONSULTATION:
PLAN FORMULATION/EVALUATION:
REPORTS/MEETINGS:
OTHER COMPONENTS?:

Breakdown of Data Inventory/Analysis:
Hydrology/flood/erosion:
Hydrogeology:
Water Quality:
Aquatic Resources:
Stream Morphology:
Terrestrial Resources:
Mapping/Data Management:
Other Costs?

CONTRIBUTORS: Region of Halton

STUDY PARTICIPATION

STEERING MEMBERS:
TECHNICAL MEMBERS: 10
PUBLIC ADVISORY MEMBERS:
OTHER?

AGENCIES INVOLVED:

CA	☒	UPPER	☒	HEALTH UNIT	☐	MOEE	☒	MAFRA	☐	MNDM	☐
PUBLIC	☐	LOWER	☒			MTO	☐	MMAH	☐	MNR	☒

OTHER:

MUNICIPALITIES INVOLVED: Regional Mun. of Halton, City of Burlington, Town of Oakville, Town of Milton, Town of Halton Hills.

#72 SOUTH KESWICK DEVELOPED AREA SUBWATERSHED PLAN

KEY CONTACT:	Stewart Beatty	Lead Agency:	Metrus Development Inc.
Phone:	(905) 669-5571	Fax:	(905) 669-2134
Initiation Date:	01-Jan-95	Completion Date:	01-Sep-96
Receiving Stream:	Cooks Bay	Main Land Use:	
CA Involved:	Lake Simcoe Region	Area Municipality:	Town of Georgina
MOEE Region:	SouthWestern	MNR District:	Maple

STUDY AREA CHARACTERISTICS

POPULATION: SIZE (KM2):

LANDUSE: % DEVELOPED: % AGRICULTURAL: % OPEN: % FOREST:

STUDY ISSUES:

Surface Water - Flooding	☐	Aquatic Life/Fisheries	☐	Private/Communal Water	☐
Surface Water - Low Flow	☐	Wetland/ANSIs	☐	Private/Communal Sewage	☐
Surface Water - Stormwater	☐	Municipal Water	☐	Aggregates	☐
Ground Water Quantity	☐	Municipal Sewage	☐	Transportation	☐
Surface Water Quality	☐	Stream Channel/Buffer	☐	Agriculture	☐
Ground Water Quality	☐	Waste Disposal	☐		

TRIGGER AND OTHER ISSUES:

PLAN COMPLETION AND IMPLEMENTATION

STUDY STATUS:	completed	Implementation Strategy Prepared?	☐	Monitoring Strategy Prepared?	☒
Digital Data Available?	☐	Plan Being Implemented?	☐	Monitoring Underway?	☐

FINANCIAL INFORMATION

TOTAL COST:

DATA INVENTORY/ANALYSIS:
PUBLIC CONSULTATION:
PLAN FORMULATION/EVALUATION:
REPORTS/MEETINGS:
OTHER COMPONENTS?:

Breakdown of Data Inventory/Analysis:
Hydrology/flood/erosion:
Hydrogeology:
Water Quality:
Aquatic Resources:
Stream Morphology:
Terrestrial Resources:
Mapping/Data Management:
Other Costs?

CONTRIBUTORS: Metrus Development.

STUDY PARTICIPATION

STEERING MEMBERS: 0
TECHNICAL MEMBERS:
PUBLIC ADVISORY MEMBERS:
OTHER?

AGENCIES INVOLVED:

CA	☒	UPPER	☐	HEALTH UNIT	☐	MOEE	☐	MAFRA	☐	MNDM	☐
PUBLIC	☐	LOWER	☒			MTO	☐	MMAH	☐	MNR	☒

OTHER:

MUNICIPALITIES INVOLVED: Town of Georgina - Town of Keswick.

#73 SOUTH SIDNEY WATERSHED PLAN

KEY CONTACT:	Glenda Rodgers	Lead Agency:	Lower Trent Region CA
Phone:	(613) 394-4829	Fax:	(613) 394-5226
Initiation Date:	23-Nov-93	Completion Date:	01-Mar-95
Receiving Stream:	Bay of Quinte	Main Land Use:	Agricultural
CA Involved:	Lower Trent Region	Area Municipality:	Hastings County
MOEE Region:	Eastern	MNR District:	Tweed

STUDY AREA CHARACTERISTICS

POPULATION: 5000 SIZE (KM2): 57

LANDUSE: % DEVELOPED: 5 % AGRICULTURAL: 35 % OPEN: 10 % FOREST: 50

STUDY ISSUES:

Surface Water - Flooding	☒	Aquatic Life/Fisheries	☐	Private/Communal Water	☐
Surface Water - Low Flow	☐	Wetland/ANSIs	☒	Private/Communal Sewage	☐
Surface Water - Stormwater	☒	Municipal Water	☐	Aggregates	☐
Ground Water Quantity	☐	Municipal Sewage	☐	Transportation	☐
Surface Water Quality	☒	Stream Channel/Buffer	☒	Agriculture	☐
Ground Water Quality	☒	Waste Disposal	☐		

TRIGGER AND OTHER ISSUES: Resource protection/stewardship.

PLAN COMPLETION AND IMPLEMENTATION

STUDY STATUS:	completed	Implementation Strategy Prepared?	☐	Monitoring Strategy Prepared?	☐
Digital Data Available?	☒	Plan Being Implemented?	☒	Monitoring Underway?	☐

FINANCIAL INFORMATION

TOTAL COST: $151,510.00

DATA INVENTORY/ANALYSIS:	$100,800.00
PUBLIC CONSULTATION:	$6,850.00
PLAN FORMULATION/EVALUATION:	$22,700.00
REPORTS/MEETINGS:	$13,460.00
OTHER COMPONENTS?:	Implementation of plan - $7,700; Inventory of exis

Breakdown of Data Inventory/Analysis:

Hydrology/flood/erosion:	$21,600.00
Hydrogeology:	$0.00
Water Quality:	$24,600.00
Aquatic Resources:	$8,400.00
Stream Morphology:	$0.00
Terrestrial Resources:	$0.00
Mapping/Data Management:	$46,200.00
Other Costs?	

CONTRIBUTORS: Provincial - 50%, grant; Municipality - 50%

STUDY PARTICIPATION

# STEERING MEMBERS:	8	# PUBLIC ADVISORY MEMBERS:	10
# TECHNICAL MEMBERS:	6	OTHER?	

AGENCIES INVOLVED:

CA	☒	UPPER	☒	HEALTH UNIT	☐	MOEE	☒	MAFRA	☒	MNDM	☐
PUBLIC	☒	LOWER	☒			MTO	☐	MMAH	☐	MNR	☒

OTHER: Bay of Quinte Remedial Action Plan.

MUNICIPALITIES INVOLVED: Twp. of Sidney

#74 SPENCER CREEK WATERSHED MANAGEMENT STUDY

KEY CONTACT:	Scott Konkle	Lead Agency:	Hamilton Region CA
Phone:	(905) 525-2181 ext. 130	Fax:	(905) 648-4622
Initiation Date:	01-Jan-90	Completion Date:	
Receiving Stream:	Cootes Paradise	Main Land Use:	Open
CA Involved:	Hamilton Region	Area Municipality:	Reg. Mun. of Hamilton-Wentworth
MOEE Region:	West Central	MNR District:	Cambridge

STUDY AREA CHARACTERISTICS

POPULATION: 80000 SIZE (KM2): 171

LANDUSE: % DEVELOPED: 5 % AGRICULTURAL: 5 % OPEN: 90 % FOREST: 0

STUDY ISSUES:

Surface Water - Flooding	☒	Aquatic Life/Fisheries	☒	Private/Communal Water	☒
Surface Water - Low Flow	☒	Wetland/ANSIs	☒	Private/Communal Sewage	☒
Surface Water - Stormwater	☒	Municipal Water	☐	Aggregates	☒
Ground Water Quantity	☒	Municipal Sewage	☐	Transportation	☐
Surface Water Quality	☒	Stream Channel/Buffer	☒	Agriculture	☒
Ground Water Quality	☒	Waste Disposal	☐		

TRIGGER AND OTHER ISSUES: Resource protection.

PLAN COMPLETION AND IMPLEMENTATION

STUDY STATUS: ongoing		Implementation Strategy Prepared?	☐	Monitoring Strategy Prepared?	☐
Digital Data Available?	☐	Plan Being Implemented?	☐	Monitoring Underway?	☐

FINANCIAL INFORMATION

TOTAL COST: $100,000.00

DATA INVENTORY/ANALYSIS:
PUBLIC CONSULTATION:
PLAN FORMULATION/EVALUATION:
REPORTS/MEETINGS:
OTHER COMPONENTS?:

Breakdown of Data Inventory/Analysis:
Hydrology/flood/erosion:
Hydrogeology:
Water Quality:
Aquatic Resources:
Stream Morphology:
Terrestrial Resources:
Mapping/Data Management:
Other Costs?

CONTRIBUTORS: HRCA: 50%, Environment Canada: 50%

STUDY PARTICIPATION

STEERING MEMBERS: 15
TECHNICAL MEMBERS:
PUBLIC ADVISORY MEMBERS:
OTHER?

AGENCIES INVOLVED:

CA	☒	UPPER	☒	HEALTH UNIT	☐	MOEE	☒	MAFRA	☐	MNDM	☒
PUBLIC	☒	LOWER	☒			MTO	☐	MMAH	☐	MNR	☒

OTHER: Various Non-government agencies.

MUNICIPALITIES INVOLVED: Regional Mun. of Hamilton-Wentworth, Town of Dundas, City of Hamilton, Town of Flamborough, Town of Ancaster.

#75 STONEY CREEK SUBWATERSHED STUDY

KEY CONTACT:	Ron Standish	Lead Agency:	City of London
Phone:	(519) 661-4978	Fax:	(519) 661-5931
Initiation Date:	01-Jun-93	Completion Date:	01-May-95
Receiving Stream:	Upper Thames River	Main Land Use:	Agricultural
CA Involved:	Upper Thames River	Area Municipality:	Middlesex County
MOEE Region:	SouthWestern	MNR District:	Aylmer

STUDY AREA CHARACTERISTICS

POPULATION: 16000 SIZE (KM2): 38

LANDUSE: % DEVELOPED: 13 % AGRICULTURAL: 63 % OPEN: 15 % FOREST: 9

STUDY ISSUES:

Surface Water - Flooding	☒	Aquatic Life/Fisheries	☒	Private/Communal Water	☒
Surface Water - Low Flow	☐	Wetland/ANSIs	☒	Private/Communal Sewage	☐
Surface Water - Stormwater	☐	Municipal Water	☐	Aggregates	☒
Ground Water Quantity	☐	Municipal Sewage	☐	Transportation	☐
Surface Water Quality	☒	Stream Channel/Buffer	☒	Agriculture	☒
Ground Water Quality	☒	Waste Disposal	☐		

TRIGGER AND OTHER ISSUES: Protection of terrestrial features.

PLAN COMPLETION AND IMPLEMENTATION

STUDY STATUS:	completed	Implementation Strategy Prepared?	☒	Monitoring Strategy Prepared?	☐
Digital Data Available?	☒	Plan Being Implemented?	☒	Monitoring Underway?	☐

FINANCIAL INFORMATION

TOTAL COST: $255,000.00

DATA INVENTORY/ANALYSIS:	$111,000.00
PUBLIC CONSULTATION:	$14,000.00
PLAN FORMULATION/EVALUATION:	$94,000.00
REPORTS/MEETINGS:	$36,000.00
OTHER COMPONENTS?:	

Breakdown of Data Inventory/Analysis:

Hydrology/flood/erosion:	$25,500.00
Hydrogeology:	$19,000.00
Water Quality:	$24,500.00
Aquatic Resources:	$5,000.00
Stream Morphology:	$10,000.00
Terrestrial Resources:	$7,000.00
Mapping/Data Management:	$20,000.00

Other Costs? Aquatic and Terrestrial Resources work done as a common study for the City of London Sw Studies.

CONTRIBUTORS: City of London: 50%, CA: 50%

STUDY PARTICIPATION

# STEERING MEMBERS:	0	# PUBLIC ADVISORY MEMBERS:	0
# TECHNICAL MEMBERS:	11	OTHER?	

AGENCIES INVOLVED:

CA	☒	UPPER	☒	HEALTH UNIT	☐	MOEE	☒	MAFRA	☒	MNDM	☐
PUBLIC	☒	LOWER	☒			MTO	☐	MMAH	☒	MNR	☒

OTHER: London Development Institute, City of London - Environmental & Ecological Planning Advisory Committee, Agricultural Advisory Committee.

MUNICIPALITIES INVOLVED: Middlesex County, City of London, West Nissouri Twp.

#76 SUB-BASIN 8 JOSHUA CREEK SUBWATERSHED PLAN

KEY CONTACT:	Bill Butler	Lead Agency:	Town of Oakville
Phone:	(905) 845-6601 ext. 3320	Fax:	(905) 815-2025
Initiation Date:	01-May-92	Completion Date:	22-Sep-92
Receiving Stream:	Joshua's Creek	Main Land Use:	Agricultural
CA Involved:	Halton Region	Area Municipality:	Reg. Mun. of Halton
MOEE Region:	Central	MNR District:	Cambridge

STUDY AREA CHARACTERISTICS

POPULATION: 5000 SIZE (KM2): 5

LANDUSE: % DEVELOPED: 10 % AGRICULTURAL: 80 % OPEN: 0 % FOREST: 10

STUDY ISSUES:

Surface Water - Flooding	☒	Aquatic Life/Fisheries	☒	Private/Communal Water	☐
Surface Water - Low Flow	☒	Wetland/ANSIs	☐	Private/Communal Sewage	☐
Surface Water - Stormwater	☒	Municipal Water	☐	Aggregates	☐
Ground Water Quantity	☐	Municipal Sewage	☐	Transportation	☒
Surface Water Quality	☒	Stream Channel/Buffer	☒	Agriculture	☐
Ground Water Quality	☐	Waste Disposal	☐		

TRIGGER AND OTHER ISSUES: Development pressure.

PLAN COMPLETION AND IMPLEMENTATION

STUDY STATUS:	completed	Implementation Strategy Prepared?	☒	Monitoring Strategy Prepared?	☐
Digital Data Available?	☐	Plan Being Implemented?	☒	Monitoring Underway?	☐

FINANCIAL INFORMATION

TOTAL COST: $30,000.00

DATA INVENTORY/ANALYSIS:
PUBLIC CONSULTATION:
PLAN FORMULATION/EVALUATION:
REPORTS/MEETINGS:
OTHER COMPONENTS?:

Breakdown of Data Inventory/Analysis:
Hydrology/flood/erosion:
Hydrogeology:
Water Quality:
Aquatic Resources:
Stream Morphology:
Terrestrial Resources:
Mapping/Data Management:
Other Costs?

CONTRIBUTORS: Developer - 100%

STUDY PARTICIPATION

# STEERING MEMBERS:	6	# PUBLIC ADVISORY MEMBERS:	0
# TECHNICAL MEMBERS:	4	OTHER?	

AGENCIES INVOLVED:

CA	☒	UPPER	☒	HEALTH UNIT	☐	MOEE	☒	MAFRA	☐	MNDM	☐
PUBLIC	☐	LOWER	☒			MTO	☐	MMAH	☐	MNR	☒

OTHER:

MUNICIPALITIES INVOLVED: Halton Region, Town of Oakville.

#77 SUBWATERSHED NO. 12 CREDIT RIVER

KEY CONTACT:	Hazel Breton	Lead Agency:	Credit Valley CA
Phone:	(905) 670-1615 ext. 235	Fax:	(905) 670-2210
Initiation Date:	01-Jan-92	Completion Date:	01-Feb-93
Receiving Stream:	Credit River	Main Land Use:	Forest
CA Involved:	Credit Valley	Area Municipality:	Town of Caledon/Halton Hills
MOEE Region:	Central	MNR District:	Aurora

STUDY AREA CHARACTERISTICS

POPULATION: 4000 SIZE (KM2): 85

LANDUSE: % DEVELOPED: 2 % AGRICULTURAL: 30 % OPEN: 30 % FOREST: 38

STUDY ISSUES:

Surface Water - Flooding	☐	Aquatic Life/Fisheries	☒	Private/Communal Water	☐
Surface Water - Low Flow	☒	Wetland/ANSIs	☒	Private/Communal Sewage	☐
Surface Water - Stormwater	☐	Municipal Water	☐	Aggregates	☐
Ground Water Quantity	☒	Municipal Sewage	☐	Transportation	☐
Surface Water Quality	☒	Stream Channel/Buffer	☐	Agriculture	☐
Ground Water Quality	☒	Waste Disposal	☐		

TRIGGER AND OTHER ISSUES: Environmental protection of hydrology, low flow, and coldwater fisheries.

PLAN COMPLETION AND IMPLEMENTATION

STUDY STATUS: completed		Implementation Strategy Prepared?	☐	Monitoring Strategy Prepared?	☐
Digital Data Available?	☐	Plan Being Implemented?	☒	Monitoring Underway?	☐

FINANCIAL INFORMATION

TOTAL COST: $35,000.00

DATA INVENTORY/ANALYSIS:	$30,000.00
PUBLIC CONSULTATION:	$0.00
PLAN FORMULATION/EVALUATION:	$0.00
REPORTS/MEETINGS:	$5,000.00
OTHER COMPONENTS?:	

Breakdown of Data Inventory/Analysis:

Hydrology/flood/erosion:	$5,000.00
Hydrogeology:	$5,000.00
Water Quality:	$5,000.00
Aquatic Resources:	$5,000.00
Stream Morphology:	$0.00
Terrestrial Resources:	$5,000.00
Mapping/Data Management:	$5,000.00
Other Costs?	

CONTRIBUTORS: Niagara Escarpment Commission - 100%

STUDY PARTICIPATION

# STEERING MEMBERS:	12	# PUBLIC ADVISORY MEMBERS:	0
# TECHNICAL MEMBERS:	0	OTHER?	

AGENCIES INVOLVED:

CA	☒	UPPER	☐	HEALTH UNIT	☐	MOEE	☒	MAFRA	☐	MNDM	☐
PUBLIC	☐	LOWER	☒			MTO	☐	MMAH	☐	MNR	☒

OTHER: Niagara Escarpment Commission.

MUNICIPALITIES INVOLVED: Town of Caledon, Town of Caledon Hills.

#78 SUBWATERSHED NO. 15 CREDIT RIVER

KEY CONTACT:	Hazel Breton	Lead Agency:	Credit Valley CA
Phone:	(905) 670-1615 ext. 235	Fax:	(905) 670-2210
Initiation Date:	01-Jan-94	Completion Date:	
Receiving Stream:	West Credit River	Main Land Use:	Agricultural
CA Involved:	Credit Valley	Area Municipality:	Twp. of Erin, Wellington County, Region of Pee
MOEE Region:	Central	MNR District:	Cambridge

STUDY AREA CHARACTERISTICS

POPULATION: 4500 SIZE (KM2): 110

LANDUSE: % DEVELOPED: 5 % AGRICULTURAL: 75 % OPEN: 0 % FOREST: 20

STUDY ISSUES:

Surface Water - Flooding	☒	Aquatic Life/Fisheries	☒	Private/Communal Water	☐
Surface Water - Low Flow	☒	Wetland/ANSIs	☒	Private/Communal Sewage	☐
Surface Water - Stormwater	☒	Municipal Water	☐	Aggregates	☒
Ground Water Quantity	☒	Municipal Sewage	☐	Transportation	☐
Surface Water Quality	☒	Stream Channel/Buffer	☒	Agriculture	☒
Ground Water Quality	☒	Waste Disposal	☐		

TRIGGER AND OTHER ISSUES: Maintain healthy environment, esp. coldwater fishery.

PLAN COMPLETION AND IMPLEMENTATION

STUDY STATUS: ongoing		Implementation Strategy Prepared?	☐	Monitoring Strategy Prepared?	☐
Digital Data Available?	☒	Plan Being Implemented?	☐	Monitoring Underway?	☐

FINANCIAL INFORMATION

TOTAL COST: $51,000.00

DATA INVENTORY/ANALYSIS:	$21,000.00
PUBLIC CONSULTATION:	$1,000.00
PLAN FORMULATION/EVALUATION:	$10,000.00
REPORTS/MEETINGS:	$10,000.00
OTHER COMPONENTS?: $4,000	

Breakdown of Data Inventory/Analysis:

Hydrology/flood/erosion:	$0.00
Hydrogeology:	$18,000.00
Water Quality:	$1,500.00
Aquatic Resources:	$0.00
Stream Morphology:	$0.00
Terrestrial Resources:	$1,500.00
Mapping/Data Management:	$0.00
Other Costs?	

CONTRIBUTORS: CVCA - 50%, MNR ; Erin (t) - 16.7%, Erin (v)- 16.7%; Caledon - 16.7%

STUDY PARTICIPATION

# STEERING MEMBERS:	15	# PUBLIC ADVISORY MEMBERS:	0
# TECHNICAL MEMBERS:	17	OTHER?	

AGENCIES INVOLVED:

CA	☒	UPPER	☒	HEALTH UNIT	☐	MOEE	☒	MAFRA	☒	MNDM	☐
PUBLIC	☒	LOWER	☒			MTO	☒	MMAH	☒	MNR	☒

OTHER:

MUNICIPALITIES INVOLVED: Twps. of Hillsburgh, Erin, Alton, Belfountain, Town of Caledon, Village of Erin.

#79 SUBWATERSHED NO. 19 CREDIT RIVER

KEY CONTACT:	Vicki Barron	Lead Agency:	Credit Valley CA
Phone:	(905) 670-1615 ext. 235	Fax:	(905) 670-2210
Initiation Date:	01-Jan-93	Completion Date:	
Receiving Stream:	Upper Credit River	Main Land Use:	Agricultural
CA Involved:	Credit Valley	Area Municipality:	Township of Amaranth
MOEE Region:	Central	MNR District:	Midhurst

STUDY AREA CHARACTERISTICS

POPULATION: 15000 SIZE (KM2): 60

LANDUSE: % DEVELOPED: 25 % AGRICULTURAL: 50 % OPEN: 25 % FOREST: 0

STUDY ISSUES:

Surface Water - Flooding	☐	Aquatic Life/Fisheries	☒	Private/Communal Water	☐
Surface Water - Low Flow	☐	Wetland/ANSIs	☐	Private/Communal Sewage	☐
Surface Water - Stormwater	☒	Municipal Water	☐	Aggregates	☐
Ground Water Quantity	☐	Municipal Sewage	☐	Transportation	☐
Surface Water Quality	☒	Stream Channel/Buffer	☐	Agriculture	☐
Ground Water Quality	☒	Waste Disposal	☐		

TRIGGER AND OTHER ISSUES: New development, need for environmental protection.

PLAN COMPLETION AND IMPLEMENTATION

STUDY STATUS: ongoing		Implementation Strategy Prepared?	☐	Monitoring Strategy Prepared?	☒
Digital Data Available?	☒	Plan Being Implemented?	☒	Monitoring Underway?	☐

FINANCIAL INFORMATION

TOTAL COST: $350,000.00

DATA INVENTORY/ANALYSIS:	$275,000.00
PUBLIC CONSULTATION:	$10,000.00
PLAN FORMULATION/EVALUATION:	$40,000.00
REPORTS/MEETINGS:	$25,000.00
OTHER COMPONENTS?:	

Breakdown of Data Inventory/Analysis:

Hydrology/flood/erosion:	$60,000.00
Hydrogeology:	$100,000.00
Water Quality:	$20,000.00
Aquatic Resources:	$25,000.00
Stream Morphology:	$25,000.00
Terrestrial Resources:	$20,000.00
Mapping/Data Management:	$25,000.00
Other Costs?	

CONTRIBUTORS: MNR: 50%; Town of Orangeville: 21%; MMA: 12%, grant

STUDY PARTICIPATION

# STEERING MEMBERS:	21	# PUBLIC ADVISORY MEMBERS:	12
# TECHNICAL MEMBERS:	15	OTHER?	

AGENCIES INVOLVED:

CA	☒	UPPER	☒	HEALTH UNIT	☐	MOEE	☒	MAFRA	☒	MNDM	☐
PUBLIC	☒	LOWER	☒			MTO	☒	MMAH	☒	MNR	☒

OTHER:

MUNICIPALITIES INVOLVED: Twps. of Amaranth, East Garafraxa, & Mono, Town of Caledon & Orangeville

#80 THAMES RIVER VALLEYLANDS STUDY

KEY CONTACT:	Ron Standish	Lead Agency:	City of London
Phone:	(519) 661-4978	Fax:	(519) 661-5931
Initiation Date:	01-May-93	Completion Date:	01-May-95
Receiving Stream:	Thames River	Main Land Use:	Agricultural
CA Involved:	Upper Thames River	Area Municipality:	City of London
MOEE Region:	SouthWestern	MNR District:	Aylmer

STUDY AREA CHARACTERISTICS

POPULATION: SIZE (KM2): 50

LANDUSE: % DEVELOPED: % AGRICULTURAL: % OPEN: % FOREST:

STUDY ISSUES:

Surface Water - Flooding	☐	Aquatic Life/Fisheries	☒	Private/Communal Water	☐
Surface Water - Low Flow	☐	Wetland/ANSIs	☐	Private/Communal Sewage	☐
Surface Water - Stormwater	☒	Municipal Water	☐	Aggregates	☒
Ground Water Quantity	☒	Municipal Sewage	☐	Transportation	☐
Surface Water Quality	☐	Stream Channel/Buffer	☒	Agriculture	☐
Ground Water Quality	☐	Waste Disposal	☐		

TRIGGER AND OTHER ISSUES: Recreational use, cultural heritage landscape.

PLAN COMPLETION AND IMPLEMENTATION

STUDY STATUS:	completed	Implementation Strategy Prepared?	☐	Monitoring Strategy Prepared?	☐
Digital Data Available?	☒	Plan Being Implemented?	☒	Monitoring Underway?	☐

FINANCIAL INFORMATION

TOTAL COST: $220,000.00

DATA INVENTORY/ANALYSIS:	$89,000.00
PUBLIC CONSULTATION:	$10,000.00
PLAN FORMULATION/EVALUATION:	$99,000.00
REPORTS/MEETINGS:	$22,000.00
OTHER COMPONENTS?:	

Breakdown of Data Inventory/Analysis:

Hydrology/flood/erosion:	$25,000.00
Hydrogeology:	$18,000.00
Water Quality:	$14,000.00
Aquatic Resources:	$5,000.00
Stream Morphology:	$7,000.00
Terrestrial Resources:	$5,000.00
Mapping/Data Management:	$15,000.00

Other Costs? Aquatic and Terrestrial Resources work done as a common study for the City of London Sw Studies.

CONTRIBUTORS: City of London - 100%

STUDY PARTICIPATION

STEERING MEMBERS: # PUBLIC ADVISORY MEMBERS:

TECHNICAL MEMBERS: 16 OTHER?

AGENCIES INVOLVED:

CA	☒	UPPER	☒	HEALTH UNIT	☐	MOEE	☒	MAFRA	☐	MNDM	☐
PUBLIC	☒	LOWER	☒			MTO	☐	MMAH	☒	MNR	☒

OTHER: London Development Institute, City of London - Environmental & Ecological Planning Advisory Committee, Agricultural Advisory Committee.

MUNICIPALITIES INVOLVED: Middlesex County, City of London, London Twp.

#81 THOMPSON CREEK SUBWATERSHED STUDY

KEY CONTACT:	John Merriam	Lead Agency:	Otonabee Region CA
Phone:	(705) 745-5791	Fax:	(705) 745-7488
Initiation Date:	01-May-93	Completion Date:	01-May-94
Receiving Stream:	Otonabee River	Main Land Use:	Developed
CA Involved:	Otonabee Region	Area Municipality:	City of Peterborough
MOEE Region:	Eastern	MNR District:	Tweed

STUDY AREA CHARACTERISTICS

POPULATION: 25000 SIZE (KM2): 0

LANDUSE: % DEVELOPED: 25 % AGRICULTURAL: 40 % OPEN: 10 % FOREST: 30

STUDY ISSUES:

Surface Water - Flooding	☒	Aquatic Life/Fisheries	☒	Private/Communal Water	☐
Surface Water - Low Flow	☒	Wetland/ANSIs	☒	Private/Communal Sewage	☐
Surface Water - Stormwater	☒	Municipal Water	☐	Aggregates	☐
Ground Water Quantity	☐	Municipal Sewage	☐	Transportation	☐
Surface Water Quality	☐	Stream Channel/Buffer	☐	Agriculture	☐
Ground Water Quality	☐	Waste Disposal	☐		

TRIGGER AND OTHER ISSUES: Development pressure.

PLAN COMPLETION AND IMPLEMENTATION

STUDY STATUS:	completed	Implementation Strategy Prepared?	☒	Monitoring Strategy Prepared?	☒
Digital Data Available?	☐	Plan Being Implemented?	☒	Monitoring Underway?	☒

FINANCIAL INFORMATION

TOTAL COST: $30,000.00

DATA INVENTORY/ANALYSIS:	$12,000.00
PUBLIC CONSULTATION:	$5,000.00
PLAN FORMULATION/EVALUATION:	$8,000.00
REPORTS/MEETINGS:	$5,000.00
OTHER COMPONENTS?:	

Breakdown of Data Inventory/Analysis:

Hydrology/flood/erosion:	$0.00
Hydrogeology:	$5,000.00
Water Quality:	$3,000.00
Aquatic Resources:	$4,000.00
Stream Morphology:	$0.00
Terrestrial Resources:	$0.00
Mapping/Data Management:	$0.00
Other Costs?	

CONTRIBUTORS: Private developers - 100%

STUDY PARTICIPATION

# STEERING MEMBERS:	5	# PUBLIC ADVISORY MEMBERS:	0
# TECHNICAL MEMBERS:	5	OTHER?	

AGENCIES INVOLVED:

CA	☒	UPPER	☐	HEALTH UNIT	☐	MOEE	☐	MAFRA	☐	MNDM	☐
PUBLIC	☐	LOWER	☒			MTO	☐	MMAH	☐	MNR	☒

OTHER:

MUNICIPALITIES INVOLVED: City of Peterborough.

#82 UPPER DODD'S CREEK

KEY CONTACT:	Doug Stanlake	Lead Agency:	City of London
Phone:	(519) 661-4980	Fax:	(519) 661-5397
Initiation Date:	01-Jun-93	Completion Date:	
Receiving Stream:	Kettle Creek	Main Land Use:	Agricultural
CA Involved:	Upper Thames River	Area Municipality:	City of St. Thomas
MOEE Region:	SouthWestern	MNR District:	Aylmer

STUDY AREA CHARACTERISTICS

POPULATION: SIZE (KM2): 154

LANDUSE: % DEVELOPED: % AGRICULTURAL: % OPEN: % FOREST:

STUDY ISSUES:

Surface Water - Flooding	☐	Aquatic Life/Fisheries	☐	Private/Communal Water	☐
Surface Water - Low Flow	☐	Wetland/ANSIs	☐	Private/Communal Sewage	☐
Surface Water - Stormwater	☐	Municipal Water	☐	Aggregates	☐
Ground Water Quantity	☐	Municipal Sewage	☐	Transportation	☐
Surface Water Quality	☐	Stream Channel/Buffer	☐	Agriculture	☐
Ground Water Quality	☐	Waste Disposal	☐		

TRIGGER AND OTHER ISSUES:

PLAN COMPLETION AND IMPLEMENTATION

STUDY STATUS ongoing		Implementation Strategy Prepared?	☐	Monitoring Strategy Prepared?	☐
Digital Data Available?	☐	Plan Being Implemented?	☐	Monitoring Underway?	☐

FINANCIAL INFORMATION

TOTAL COST:

DATA INVENTORY/ANALYSIS:
PUBLIC CONSULTATION:
PLAN FORMULATION/EVALUATION:
REPORTS/MEETINGS:
OTHER COMPONENTS?:

Breakdown of Data Inventory/Analysis:

Hydrology/flood/erosion:	
Hydrogeology:	
Water Quality:	
Aquatic Resources:	
Stream Morphology:	**$0.00**
Terrestrial Resources:	**$0.00**
Mapping/Data Management:	**$0.00**
Other Costs?	

CONTRIBUTORS:

STUDY PARTICIPATION

STEERING MEMBERS:
TECHNICAL MEMBERS:
PUBLIC ADVISORY MEMBERS:
OTHER?

AGENCIES INVOLVED:

CA	☐	UPPER	☒	HEALTH UNIT	☐	MOEE	☐	MAFRA	☐	MNDM	☐
PUBLIC	☐	LOWER	☒			MTO	☐	MMAH	☐	MNR	☐

OTHER:

MUNICIPALITIES INVOLVED: City of St. Thomas, Port Stanley, Elgin County, Town of Belmont,

#83 UPPER NO NAME CREEK WATERSHED STUDY

KEY CONTACT:	Ernie Margetson	Lead Agency:	Moira River CA
Phone:	(613) 968-3434	Fax:	(613) 968-8240
Initiation Date:	01-Jan-93	Completion Date:	01-May-95
Receiving Stream:	Moira River	Main Land Use:	Developed
CA Involved:	Moira River	Area Municipality:	City of Belleville
MOEE Region:	Eastern	MNR District:	Tweed

STUDY AREA CHARACTERISTICS

POPULATION: 5000 SIZE (KM2): 6

LANDUSE: % DEVELOPED: 41 % AGRICULTURAL: 30 % OPEN: 29 % FOREST: 0

STUDY ISSUES:

Surface Water - Flooding	☒	Aquatic Life/Fisheries	☐	Private/Communal Water	☐
Surface Water - Low Flow	☐	Wetland/ANSIs	☒	Private/Communal Sewage	☐
Surface Water - Stormwater	☒	Municipal Water	☐	Aggregates	☐
Ground Water Quantity	☐	Municipal Sewage	☐	Transportation	☐
Surface Water Quality	☒	Stream Channel/Buffer	☐	Agriculture	☐
Ground Water Quality	☐	Waste Disposal	☐		

TRIGGER AND OTHER ISSUES: Development pressure.

PLAN COMPLETION AND IMPLEMENTATION

STUDY STATUS:	completed	Implementation Strategy Prepared?	☐	Monitoring Strategy Prepared?	☐
Digital Data Available?	☒	Plan Being Implemented?	☒	Monitoring Underway?	☐

FINANCIAL INFORMATION

TOTAL COST: $60,000.00

DATA INVENTORY/ANALYSIS:	$35,000.00
PUBLIC CONSULTATION:	$4,000.00
PLAN FORMULATION/EVALUATION:	$5,000.00
REPORTS/MEETINGS:	$16,000.00
OTHER COMPONENTS?:	

Breakdown of Data Inventory/Analysis:

Hydrology/flood/erosion:	$7,000.00
Hydrogeology:	$0.00
Water Quality:	$10,000.00
Aquatic Resources:	$7,000.00
Stream Morphology:	$0.00
Terrestrial Resources:	$6,000.00
Mapping/Data Management:	$5,000.00
Other Costs?	

CONTRIBUTORS: MNR/CA (50%), City of Belleville (25%),Twp. of Thurlow (25%)

STUDY PARTICIPATION

# STEERING MEMBERS:	8	# PUBLIC ADVISORY MEMBERS:	0
# TECHNICAL MEMBERS:	5	OTHER?	

AGENCIES INVOLVED:

CA	☒	UPPER	☐	HEALTH UNIT	☐	MOEE	☒	MAFRA	☐	MNDM	☐
PUBLIC	☒	LOWER	☒			MTO	☐	MMAH	☐	MNR	☐

OTHER:

MUNICIPALITIES INVOLVED: City of Belleville, Twp of Thurlow.

#84 UPPER SHOEMAKER CREEK WATERSHED PLAN

KEY CONTACT:	Dave Mansell	Lead Agency:	City of Kitchener
Phone:	(519) 741-2419	Fax:	(519) 741-2633
Initiation Date:	01-Jan-92	Completion Date:	01-Jun-93
Receiving Stream:	Schneider River	Main Land Use:	Agricultural
CA Involved:	Grand River	Area Municipality:	City of Kitchener
MOEE Region:	SouthWestern	MNR District:	Cambridge

STUDY AREA CHARACTERISTICS

POPULATION: 1500 SIZE (KM2): 5

LANDUSE: % DEVELOPED: 15 % AGRICULTURAL: 45 % OPEN: 20 % FOREST: 20

STUDY ISSUES:

Surface Water - Flooding	☒	Aquatic Life/Fisheries	☐	Private/Communal Water	☐
Surface Water - Low Flow	☒	Wetland/ANSIs	☒	Private/Communal Sewage	☐
Surface Water - Stormwater	☒	Municipal Water	☐	Aggregates	☐
Ground Water Quantity	☐	Municipal Sewage	☐	Transportation	☐
Surface Water Quality	☐	Stream Channel/Buffer	☐	Agriculture	☐
Ground Water Quality	☒	Waste Disposal	☐		

TRIGGER AND OTHER ISSUES: Imminent development and infrastructure pressure.

PLAN COMPLETION AND IMPLEMENTATION

STUDY STATUS:	completed	Implementation Strategy Prepared?	☒	Monitoring Strategy Prepared?	☐
Digital Data Available?	☐	Plan Being Implemented?	☒	Monitoring Underway?	☐

FINANCIAL INFORMATION

TOTAL COST: $70,000.00

DATA INVENTORY/ANALYSIS:
PUBLIC CONSULTATION:
PLAN FORMULATION/EVALUATION:
REPORTS/MEETINGS:
OTHER COMPONENTS?:

Breakdown of Data Inventory/Analysis:
Hydrology/flood/erosion:
Hydrogeology:
Water Quality:
Aquatic Resources:
Stream Morphology:
Terrestrial Resources:
Mapping/Data Management:
Other Costs?

CONTRIBUTORS: Municipality 100%

STUDY PARTICIPATION

STEERING MEMBERS: 10
TECHNICAL MEMBERS:
PUBLIC ADVISORY MEMBERS:
OTHER?

AGENCIES INVOLVED:

CA	☒	UPPER	☒	HEALTH UNIT	☐	MOEE	☐	MAFRA	☐	MNDM	☐		
PUBLIC	☐	LOWER	☒			MTO	☐	MMAH	☐	MNR	☒		

OTHER:

MUNICIPALITIES INVOLVED: City of Kitchener, Region of Waterloo.

#85 UXBRIDGE BROOK WATERSHED PLAN

KEY CONTACT:	Alex Grant	Lead Agency:	Township of Uxbridge/Lake Simcoe CA
Phone:	(905) 852-9181	Fax:	(905) 852-9674
Initiation Date:	01-Nov-95	Completion Date:	
Receiving Stream:	Lake Simcoe	Main Land Use:	Agricultural
CA Involved:	Lake Simcoe Region	Area Municipality:	Township of Uxbridge
MOEE Region:	SouthWestern	MNR District:	Midhurst

STUDY AREA CHARACTERISTICS

POPULATION: SIZE (KM2): 192

LANDUSE: % DEVELOPED: 3 % AGRICULTURAL: 50 % OPEN: 19 % FOREST: 28

STUDY ISSUES:

Surface Water - Flooding	☒	Aquatic Life/Fisheries	☒	Private/Communal Water	☒
Surface Water - Low Flow	☒	Wetland/ANSIs	☒	Private/Communal Sewage	☒
Surface Water - Stormwater	☒	Municipal Water	☒	Aggregates	☒
Ground Water Quantity	☒	Municipal Sewage	☒	Transportation	☐
Surface Water Quality	☒	Stream Channel/Buffer	☒	Agriculture	☒
Ground Water Quality	☒	Waste Disposal	☐		

TRIGGER AND OTHER ISSUES: Regulatory approvals; remedial planning by government & special community interests.

PLAN COMPLETION AND IMPLEMENTATION

STUDY STATUS: ongoing		Implementation Strategy Prepared?	☐	Monitoring Strategy Prepared?	☐
Digital Data Available?	☒	Plan Being Implemented?	☐	Monitoring Underway?	☐

FINANCIAL INFORMATION

TOTAL COST: $85,000.00

DATA INVENTORY/ANALYSIS:	$44,000.00
PUBLIC CONSULTATION:	$8,000.00
PLAN FORMULATION/EVALUATION:	$15,000.00
REPORTS/MEETINGS:	$9,000.00
OTHER COMPONENTS?:	Constraint mapping/modelling - $9,000

Breakdown of Data Inventory/Analysis:

Hydrology/flood/erosion:	$9,000.00
Hydrogeology:	$15,000.00
Water Quality:	$5,000.00
Aquatic Resources:	$2,500.00
Stream Morphology:	$2,500.00
Terrestrial Resources:	$2,000.00
Mapping/Data Management:	$8,000.00
Other Costs?	

CONTRIBUTORS: Twp of Uxbridge, Lake Simcoe CA, MOEE in-kind support.

STUDY PARTICIPATION

# STEERING MEMBERS:	0	# PUBLIC ADVISORY MEMBERS:	
# TECHNICAL MEMBERS:		OTHER?	

AGENCIES INVOLVED:

CA	☒	UPPER	☒	HEALTH UNIT	☒	MOEE	☒	MAFRA	☐	MNDM	☒
PUBLIC	☒	LOWER	☒			MTO	☒	MMAH	☐	MNR	☒

OTHER:

MUNICIPALITIES INVOLVED: Region of York, Durham, Twps of Uxbridge, Brock, Scugog.

#86 WARREN CREEK WATERSHED MASTER PLAN

KEY CONTACT:	Ed Dujlovic	Lead Agency:	City of Niagara Falls
Phone:	(905) 356-7521 ext. 4220	Fax:	(905) 356-9083
Initiation Date:	30-Aug-93	Completion Date:	01-May-96
Receiving Stream:	Welland River	Main Land Use:	Agricultural
CA Involved:	Niagara Peninsula	Area Municipality:	City of Niagara Falls
MOEE Region:	West Central	MNR District:	Cambridge

STUDY AREA CHARACTERISTICS

POPULATION: 100 SIZE (KM2): 6

LANDUSE: % DEVELOPED: 15 % AGRICULTURAL: 55 % OPEN: 30 % FOREST: 0

STUDY ISSUES:

Surface Water - Flooding	☒	Aquatic Life/Fisheries	☒	Private/Communal Water	☐
Surface Water - Low Flow	☐	Wetland/ANSIs	☐	Private/Communal Sewage	☐
Surface Water - Stormwater	☐	Municipal Water	☐	Aggregates	☐
Ground Water Quantity	☐	Municipal Sewage	☐	Transportation	☐
Surface Water Quality	☒	Stream Channel/Buffer	☐	Agriculture	☐
Ground Water Quality	☒	Waste Disposal	☐		

TRIGGER AND OTHER ISSUES: Resource Protection

PLAN COMPLETION AND IMPLEMENTATION

STUDY STATUS:	ongoing	Implementation Strategy Prepared?	☐	Monitoring Strategy Prepared?	☐
Digital Data Available?	☐	Plan Being Implemented?	☐	Monitoring Underway?	☐

FINANCIAL INFORMATION

TOTAL COST: $60,238.00

DATA INVENTORY/ANALYSIS:	$41,669.00
PUBLIC CONSULTATION:	$6,985.00
PLAN FORMULATION/EVALUATION:	$0.00
REPORTS/MEETINGS:	$11,584.00
OTHER COMPONENTS?:	

Breakdown of Data Inventory/Analysis:

Hydrology/flood/erosion:	$13,980.00
Hydrogeology:	$4,479.00
Water Quality:	$0.00
Aquatic Resources:	$6,375.00
Stream Morphology:	$0.00
Terrestrial Resources:	$4,005.00
Mapping/Data Management:	$12,830.00
Other Costs?	

CONTRIBUTORS: City of Niagara Falls - 100%

STUDY PARTICIPATION

STEERING MEMBERS: 11 # PUBLIC ADVISORY MEMBERS:

TECHNICAL MEMBERS: OTHER?

AGENCIES INVOLVED:

CA	☒	UPPER	☒	HEALTH UNIT	☐	MOEE	☒	MAFRA	☐	MNDM	☐
PUBLIC	☐	LOWER	☒			MTO	☐	MMAH	☐	MNR	☒

OTHER:

MUNICIPALITIES INVOLVED: City of Niagara Falls.

#87 WEST HUMBER RIVER SUBWATERSHED STUDY

KEY CONTACT:	Carl Brawley	Lead Agency:	City of Brampton
Phone:	(905) 874-2071	Fax:	(905) 874-2099
Initiation Date:	01-Nov-93	Completion Date:	
Receiving Stream:	Main Humber River	Main Land Use:	Agricultural
CA Involved:	Metro Toronto and Region	Area Municipality:	City of Brampton
MOEE Region:	Central	MNR District:	Maple

STUDY AREA CHARACTERISTICS

POPULATION: 30000 SIZE (KM2): 210

LANDUSE: % DEVELOPED: 20 % AGRICULTURAL: 60 % OPEN: 10 % FOREST: 10

STUDY ISSUES:

Surface Water - Flooding	☒	Aquatic Life/Fisheries	☒	Private/Communal Water	☐
Surface Water - Low Flow	☒	Wetland/ANSIs	☒	Private/Communal Sewage	☐
Surface Water - Stormwater	☒	Municipal Water	☐	Aggregates	☐
Ground Water Quantity	☐	Municipal Sewage	☐	Transportation	☐
Surface Water Quality	☒	Stream Channel/Buffer	☐	Agriculture	☐
Ground Water Quality	☒	Waste Disposal	☐		

TRIGGER AND OTHER ISSUES: Development pressures and municipal landuse planning.

PLAN COMPLETION AND IMPLEMENTATION

STUDY STATUS:	ongoing	Implementation Strategy Prepared?	☐	Monitoring Strategy Prepared?	☒
Digital Data Available?	☒	Plan Being Implemented?	☒	Monitoring Underway?	☐

FINANCIAL INFORMATION

TOTAL COST: $193,500.00

DATA INVENTORY/ANALYSIS:	$125,000.00
PUBLIC CONSULTATION:	$8,000.00
PLAN FORMULATION/EVALUATION:	$25,000.00
REPORTS/MEETINGS:	$33,000.00
OTHER COMPONENTS?:	

Breakdown of Data Inventory/Analysis:

Hydrology/flood/erosion:	$25,000.00
Hydrogeology:	$0.00
Water Quality:	$5,000.00
Aquatic Resources:	$15,000.00
Stream Morphology:	$10,000.00
Terrestrial Resources:	$8,000.00
Mapping/Data Management:	$14,000.00
Other Costs?	

CONTRIBUTORS: Private, land developers - 100%

STUDY PARTICIPATION

# STEERING MEMBERS:	24	# PUBLIC ADVISORY MEMBERS:	
# TECHNICAL MEMBERS:	12	OTHER?	

AGENCIES INVOLVED:

CA	☒	UPPER	☒	HEALTH UNIT	☐	MOEE	☒	MAFRA	☐	MNDM	☐
PUBLIC	☐	LOWER	☒			MTO	☒	MMAH	☐	MNR	☒

OTHER: Action to Restore a Clean Humber (ARCH)

MUNICIPALITIES INVOLVED: Caledon, Brampton, Vaughan, Peel



appendix C:

REGISTRATION FORM

REGISTRATION INFORMATION

Name of study: Key contact:

Affiliation: Phone:

Lead agency: Fax number:

Initiation date: (d/m/y) Status of study: ❍ Ongoing ❍ Completed Completion date: (d/m/y)

Local conservation authority:

MNR district office: MOEE regional office:

STUDY DETAILS

1) WHAT IS THE SIZE, POPULATION, RECEIVING STREAM AND MAIN LAND USE OF THE STUDY AREA?

Size (km^2): Population: Receiving stream: Main land use:

2) WHAT LAND USE(S) CHARACTERIZE THE STUDY AREA?

❍ Developed % ❍ Open % ❍ Agricultural % ❍ Forest/woodlot % ❍ Other %

3) WHAT ARE THE PREDOMINANT TOPOGRAPHICAL AND GEOLOGICAL CHARACTERISTICS OF THE STUDY AREA?

Topography: % steep (>30% slope) % % hilly (10-30% slope) % % rolling (5-10% slope) %

% flat (0-5% slope) %

Soils/geology: typical surface soil depth to bedrock (m) soil to bedrock

type of bedrock % imperviousness

4) WHAT WAS THE MAIN TRIGGER/ISSUES THAT LED TO THE INITIATION OF THE STUDY?

1) Development pressure 2) Resource protection 3) Other:

5) WHAT WERE THE MAIN ISSUES WHICH WERE TO BE ADDRESSED BY THE STUDY?

❍ Surface water - flooding ❍ Surface water - low flow ❍ Surface water - stormwater ❍ Ground water - quantity

❍ Surface water - quality ❍ Wetland/ANSIs ❍ Municipal water ❍ Municipal sewage

❍ Stream channel/buffers ❍ Waste disposal ❍ Private/communal water ❍ Private/communal sewage

❍ Aggregates ❍ Agriculture ❍ Aquatic life/fisheries

PLAN DEVELOPMENT, IMPLEMENTATION AND MONITORING

6) HAS A WATERSHED OR SUBWATERSHED PLAN BEEN DEVELOPED? IS IT BEING IMPLEMENTED?

Plan developed: ❍ yes ❍ no Being implemented: ❍ yes ❍ no If yes, is it being implemented through the official planning process? ❍ yes ❍ no

Which municipal official Plan?

7) IS THERE A STRATEGY IN PLACE TO GUIDE THE IMPLEMENTATION OF THE PLAN?

Developed: ❍ yes ❍ no

8) TO MONITOR THE EFFECTIVENESS OF THE PLAN?

Developed: ❍ yes ❍ no

FINANCIAL INFORMATION

9) WHAT WAS THE TOTAL COST OF THE STUDY?

Projected total (use projected figures if ongoing): $ Actual (use actual figures if completed): $

10) WHO WERE THE MAIN FINANCIAL CONTRIBUTORS FOR THE STUDY?

Contributor Amount/Percentage of total

11) HOW WERE THE FUNDS ALLOCATED?

Scientific Component:	Hydrology, flood & erosion: $	Hydrogeology:$	Water quality: $
	Stream morphology: $	Mapping/data mgmt: $	Aquatic resources: $
	Terrestrial resources: $		
Study Component:	Reports and meetings: $	Public consultation: $	Plan preparation: $
	Data management: $	Other costs: $	

STUDY PARTICIPANTS

12) HOW LARGE WAS THE STEERING COMMITTEE?

Number of members:

13) THE TECHNICAL COMMITTEE?

Number of members:

14) THE PUBLIC ADVISORY COMMITTEE?

Number of members:

15) WHAT AGENCIES AND MUNICIPALITIES WERE INVOLVED?

❍ CA ❍ Public ❍ MNR ❍ MOEE ❍ MTO ❍ Upper tier ❍ Lower tier ❍ MAFRA
❍ MMAH ❍ MNDM ❍ Health Unit ❍ Other

MUNICIPALITIES INVOLVED: Attach list with names of municipalities involved.

16) HOW WAS THE PUBLIC INFORMED OF THE STUDY?

❍ Open house: ❍ yes ❍ no ❍ Mail display: ❍ yes ❍ no ❍ Newsletters: ❍ yes ❍ no ❍ Workshops: ❍ yes ❍ no
❍ Interpretive trails ❍ Community TV: ❍ yes ❍ no ❍ Teacher/classroom : ❍ yes ❍ no ❍ Other

SEND COMPLETED REGISTRATION FORM TO ONE OF THE FOLLOWING INDIVIDUALS:

Zdenek Novak
Ministry of Environment and Energy
Science & Technology Branch.
2 St. Clair Ave. W., Floor 12A
Toronto, Ontario
M4V 1L5

Don Greer
Ministry of Natural Resources
Land Use Planning Branch
P.O. Box 7000
300 Water St., Floor 5
Peterborough, Ontario
K9J 8M5

project contributors

Data contributors • Ausable-Bayfield Conservation Authority • Cataraqui Region Conservation Authority • Central Lake Ontario Conservation Authority • Central Elgan Planning Office • City of Brampton • City of Burlington • City of Guelph • City of Kitchener • City of London • City of Niagara Falls • City of Scarborough • City of St. Thomas • City of Waterloo • City of Vaughan • Credit Valley Conservation Authority • Cumming Cockburn Ltd • Friends of Fort Erie's Creeks • Grand River Conservation Authority • Halton Region Conservation Authority • Hamilton Region Conservation Authority • Lake Simcoe Region Conservation Authority • Lakehead Region Conservation Authority • Lower Trent Region Conservation Authority • M.M. Dillon Ltd. • Maitland Valley Conservation Authority • Marshall Macklin Monaghan Ltd. • Mattagami Region Conservation Authority • Metropolitan Toronto and Region Conservation Authority • Metrus Development Inc. • Ministry of Environment and Energy • Ministry of Natural Resources • Mississippi Valley Conservation Authority • Moira River Conservation Authority • Niagara Peninsula Conservation Authority • North Bay-Mattawa Conservation Authority • Nottawasaga Valley Conservation Authority • Ontario Hydro • Otonabee Region Conservation Authority • Regional Municipality of Halton • Regional Municipality of Waterloo • Rideau Valley Conservation Authority • South Nation River Conservation Authority • Town of Ancaster • Town of East Gwillimbury • Town of Innisfil • Town of Markham • Town of Oakville • Town of Uxbridge • Upper Thames River Conservation Authority • Weston Larkin •

Other participants • Catfish Creek Conservation Authority • Crowe Valley Conservation Authority • Essex Region Conservation Authority • Ganaraska Region Conservation Authority • Grey Sauble Conservation Authority • Kawartha Region Conservation Authority • Kettle Creek Conservation Authority • Long Point Region Conservation Authority • Napanee Region Conservation Authority • Nickel District Conservation Authority • Prince Edward Conservation Authority • Raisin Region Conservation Authority • Sault Ste. Marie Conservation Authority • Saugeen Valley Conservation Authority • St Clair Region Conservation Authority •

Project co-ordination/writing team

Valerie Gust
Ministry of Environment and Energy/
Ministry of Natural Resources

Zdenek Novak
Ministry of Environment and Energy

Communications Branch,
Ministry of Environment and Energy

Data manager

Heather Stanworth
Ministry of Natural Resources

Research team

Monique Chen/Christina Smith
Heather Stanworth
Summer Experience Program, MNR

Ken Svazas,
Environmental Youth Corps, MOEE

Mapping team

Bernie Neary/Sue Port
Ministry of Environment and Energy

Project guidance & support

MNR/MOEE Multiple agency agreement with

Credit Valley/Grand River conservation authorities

Provincial Government
Summer Employment programs

Mel Plewes/Steve Cart,
Ministry of Environment and Energy

John Kirkhead/Don Greer
Ministry of Natural Resources

Watershed Planning Implementation Project Management Committee

notes